PACIFIC SALMON COMMISSION
JOINT CHINOOK TECHNICAL COMMITTEE REPORT

2016 EXPLOITATION RATE ANALYSIS AND MODEL CALIBRATION SUPPLEMENT DATA NOTEBOOK

REPORT TCCHINOOK (17)-01

February 16, 2017

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LIST OF APPENDICES

Appendix A: Relationship between exploitation rate indicator stocks, escapement indicator stocks, model stocks, and additional management action stocks identified in the Pacific Salmon Treaty annex 1

Appendix C: Percent distribution of landed catch and total mortality among fisheries and escapement for exploitation rate indicator stocks by calendar year with analogous model stocks listed in parentheses. 9

Appendix I: Fishery exploitation rate indices by stock, age and fishery, based on CWT data 69

Appendix J: Preseason forecasts including 2016 and postseason estimates for PSC model stocks, 1999-2015 83

Note: Product names used in this publication are included for completeness but do not constitute product endorsement.

LIST OF ACRONYMS

AABM	Aggregate Abundance Based Management
AI	Abundance Index
ADF&G	Alaska Department of Fish & Game
AEQ	Adult Equivalent
AWG	Analytical Working Group of the CTC
BY	Brood Year
BYER	Brood Year Exploitation Rate
DFO	Department of Fisheries and Oceans Canada
CLB	Calibration
CNR	Chinook Nonretention
CRITFC	Columbia River Intertribal Fish Commission
CTC	Chinook Technical Committee
CWTIP	Coded Wire Tag Improvement Program
CWTIT	Coded Wire Tag Improvement Team
CY	Calendar Year
CWT	Coded Wire Tag
DIT	Double Index Tag
ERA	Exploitation Rate Analysis
FI	Fishery Index
EV	Environmental Variable scalar
FNC	First Nations Caucus
IM	Incidental Mortality
LC	Landed Catch
ISBM	Individual Stock Based Management
MM	Mass marked
MSF	Mark-Selective Fishery
NA	Not Available
NBC	Northern BC Dixon Entrance to Kitimat including Haida Gwaii
NMFS	National Marine Fisheries Service
NWIFC	Northwest Indian Fisheries Commission
ODFW	Oregon Department of Fish & Wildlife
PSC	Pacific Salmon Commission
PST	Pacific Salmon Treaty
QIN	Quinault Nation
ROM	Ratio of Means
SEAK	Southeast Alaska Cape Suckling to Dixon Entrance
SPS	South Puget Sound
SPFI	Stratified Proportional Fishery Index
UAF	University of Alaska Fairbanks
USFWS	US Fish & Wildlife Service
WA/OR	Ocean areas off Washington and Oregon North of Cape Falcon
WCVI	West Coast Vancouver Island excluding Area 20
WDFW	Washington Department of Fish and Wildlife

APPENDIX A: RELATIONSHIP BETWEEN EXPLOITATION RATE INDICATOR STOCKS, ESCAPEMENT INDICATOR STOCKS, MODEL STOCKS, AND ADDITIONAL MANAGEMENT ACTION STOCKS IDENTIFIED IN THE PACIFIC SALMON TREATY ANNEX

LIST OF APPENDIX A TABLES

Appendix A1. Indicator stocks for Southeast Alaska and Transboundary Rivers. 3

Appendix A2. Indicator stocks for Canada. 4

Appendix A3. Indicator stocks for Puget Sound. 5

Appendix A4. Indicator stocks for the Washington Coast. 6

Appendix A5. Indicator stocks for Columbia River and Oregon Coast 7

Appendix A1. Indicator stocks for Southeast Alaska and Transboundary Rivers.

Area	Annex Stock Group[1]	Annex Indicator Stocks	Run Type	Escapement Indicator Stock	Escapement Objective[2]	Model Stock	Escapement Goal in Model[3]	Exploitation Rate Indicator Stock	CWT Acronym
SEAK/TBR			Spring	Taku	19,000–36,000[4]	Alaska South SE	9,110	Taku	TAK
				Stikine	14,000–28,000[4]			Stikine	STI
				Alsek	3,500–5,300			NA	
Yakutat				Situk	500–1,000[2]			NA	
SEAK Northern Inside				Chilkat	1,750-3,500[4]			Chilkat	CHK
SEAK Southern Inside				Unuk	1,800–3,800[4]			Alaska Spring (Little Port Walter, Neets Bay Hatchery, Whitman Lake Hatchery, Deer Mountain Hatchery, Crystal Lake Hatchery)	UNU
				Chickamin	450–900[5]				AKS

Note: NA = not available.

[1] SEAK fisheries will be managed to achieve escapement objectives for Southeast Alaska and Transboundary River Chinook salmon stocks.
[2] CTC escapement objective.
[3] Agency objective.
[4] Based on large spawners (age-.3 and older).
[5] Based on index count of large spawners (age-.3 and older).

Appendix A2. Indicator stocks for Canada.

Area	Annex Stock Group	Annex Indicator Stocks	Run Type	Escapement Indicator Stock	Escapement Objective[1]	Model Stock	Escapement Goal in Model[2]	Exploitation Rate Indicator Stock	CWT Acronym
NBC-Area 1	North/Central British Columbia	Yakoun	Summer	Yakoun	Escapement goal range by stock	North/Central BC	117,500	Kitsumkalum	KLM
NBC-Area 3		Nass	Summer	Nass					
NBC-Area 4		Skeena		Skeena				Atnarko	ATN
CBC-Area 8			Spring	Dean					
CBC-Area 9			Spring/Fall	Rivers Inlet					
WCVI	West Coast Vancouver Island Falls	Artlish, Burman, Gold, Kauok, Tahsis, Tashish, Marble	Fall	WCVI Aggregate (Artlish, Burman, Kauok, Tahsis, Tashish, Marble)	Escapement goal range for aggregate	WCVI Natural	42,734	Robertson Creek	RBT
						WCVI Hatchery	6,472		
Upper Strait of Georgia	Upper Strait of Georgia	Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish	Summer/Fall	Upper Strait of Georgia (Klinaklini, Kakweikan, Wakeman, Kingcome, Nimpkish)	Escapement goal range for aggregate	Upper Strait of Georgia	23,300	Quinsam	QUI
Lower Strait of Georgia	Lower Strait of Georgia		Summer/Fall			Lower Strait of Georgia Hatchery	5,318	Puntledge	PPS
								Big Qualicum	BQR
		Cowichan, Nanaimo	Fall	Lower Strait of Georgia (Cowichan/ Nanaimo)	Escapement goal range for aggregate	Lower Strait of Georgia Natural	21,935	Cowichan	COW
								Nanaimo	NAN
Fraser River	Fraser Early	Upper Fraser Mid Fraser Thompson	Spring	Fraser Spring run age 1.2	Escapement goal range by stock	Fraser Early	93,700	Nicola	NIC
				Fraser Spring run age 1.3				Dome	DOM
			Summer	Fraser Summer run age 1.3				NA	NA
				Fraser Summer run age 0.3				Lower Shuswap	SHU
								Middle Shuswap	MSH
	Fraser Late	Harrison River	Fall	Harrison River	75,100–98,500	Fraser Late	75,100	Chilliwack	CHI
								Harrison	HAR

[1] CTC escapement objective.
[2] Agency objective.

Appendix A3. Indicator stocks for Puget Sound.

Area	Annex Stock Group	Annex Indicator Stocks	Run Type	Escapement Indicator Stock	Escapement Objective[1]	Model Stock	Escapement Goal in Model[2]	Exploitation Rate Indicator Stock	CWT Acronym
North/ Central Puget Sound	North Puget Sound Natural Springs	Nooksack	Spring	Nooksack	Escapement goal range by stock	Nooksack Spring	4,000	Nooksack Spring Fingerling Nooksack Spring Yearling	NSF NKS
		Skagit		Skagit Spring				Skagit Spring Fingerling Skagit Spring Yearling	SKF SKS
	Not an Annex stock		Fall			Nooksack Fall	11,923	Samish Fall Fingerling	SAM
	Puget Sound Natural Summer/Falls	Snohomish	Summer/ Fall	Snohomish		Snohomish Wild	5,250	Skykomish	SKY
		Skagit group		Skagit Summer/Fall		Skagit Wild	9,778	Skagit Summer Fingerling	SSF
		Lake Washington		Lake Washington Falls		Puget Sound Natural Fingerling	16,966	NA	
		Green River		Green River				Green River Fingerling	GRN
		Stillaguamish		Stillaguamish		Stillaguamish Wild	2,000	Stillaguamish Fall Fingerling	STL
								Nisqually Fall Fingerling	NIS
Hood Canal	Not an Annex stock		Fall			Puget Sound Hatchery Fingerling		George Adams Fall Fingerling	GAD
South Puget Sound	Not an annex stock		Fall			Puget Sound Hatchery Fingerling	24,769	South Puget Sound Fall Fingerling	SPS
						Puget Sound Hatchery Yearling	9,136	South Puget Sound Fall Yearling	SPY
								Squaxin Pens Fall Yearling[3]	SQP
								Univ. of Washington Accelerated Fall[3]	UWA
			Spring					White River Spring Yearling	WRY

Note: NA = not available.

[1] CTC escapement objective.

[2] Agency objective.

[3] Production and tagging discontinued.

Appendix A4. Indicator stocks for the Washington Coast.

Area	Annex Stock Group	Annex Indicator Stocks	Run Type	Escapement Indicator Stock	Escapement Objective[1]	Model Stock	Escapement Goal in Model[2]	Exploitation Rate Indicator Stock	CWT Acronym
WA Coast/ Juan de Fuca	Washington Coastal Fall Naturals	Hoko	Fall	Hoko	Escapement goal range by stock	Washington Coastal Wild	21,500	Elwha Fall Fingerling	ELW
								Hoko Fall Fingerling	HOK
		Grays Harbor		Grays Harbor Fall				NA	
		Queets		Queets Fall				Queets Fall Fingerling	QUE
		Hoh		Hoh Fall				NA	
		Quillayute		Quillayute Fall				NA	
								Sooes Fall Fingerling	SOO
	Not an annex stock		Fall			Washington Coastal Hatchery	6,703	NA	
	Not an annex stock		Spring	Grays Harbor Spring				NA	
	Not an annex stock		Spring/ Summer	Queets Spring/Summer				NA	
				Hoh Spring/Summer				NA	
	Not an annex stock		Summer	Quillayute Summer				NA	

Note: NA = not available

[1] CTC escapement objective.

[2] Agency objective.

Appendix A5. Indicator stocks for Columbia River and Oregon Coast.

Area	Annex Stock Group	Annex Indicator Stocks	Run Type	Escapement Indicator Stock	Escapement Objective[1]	Model Stock	Escapement Goal in Model[2]	Exploitation Rate Indicator Stock	CWT Acronym
Columbia River	Not an Annex stock		Spring			Cowlitz Spring Hatchery	2,500	NA	CWS
						Willamette River Hatchery	13,500	Willamette Spring	WSH
	Columbia River Summers	Mid-Columbia Summers	Summer	Mid-Columbia Summer	17,857[3]	Columbia River Summer	17,857	Columbia Summers	SUM
	Columbia River Falls		Fall			Fall Cowlitz Hatchery	8,800	Cowlitz Tule	CWF
						Spring Creek Hatchery	7,000	Spring Creek Tule	SPR
						Lower Bonneville Hatchery	26,200	Columbia Lower River Hatchery	LRH
		Upriver Brights		Columbia Upriver Bright	45,000	Columbia Upriver Brights	40,000	Columbia Upriver Bright	URB
								Hanford Wild	HAN
		Deschutes		Deschutes River Fall	4,532	Subset of Columbia Upriver Brights	4,000	NA	
						Lyons Ferry	3,430	Lyons Ferry	LYF
						Mid-Columbia River Brights	12,500	NA	
		Lewis River		Lewis	5,700	Lewis River Wild	5,700	Lewis River Wild	LRW
North Oregon Coast	Far North Migrating Oregon Coastal Falls	Nehalem	Fall	Nehalem	6,989	Oregon Coast	62,382	Salmon River	SRH
		Siuslaw		Siuslaw	12,925				
		Siletz		Siletz	2,944				
Mid-Oregon Coast	Not an Annex stock		Fall	Umpqua				Elk River	ELK
				Mid-South Oregon Coastal Falls					

Note: NA = not available.

[1] CTC escapement objective.
[2] Agency objective.
[3] Measured at Bonneville Dam.

APPENDIX C: PERCENT DISTRIBUTION OF LANDED CATCH AND TOTAL MORTALITY AMONG FISHERIES AND ESCAPEMENT FOR EXPLOITATION RATE INDICATOR STOCKS BY CALENDAR YEAR WITH ANALOGOUS MODEL STOCKS LISTED IN PARENTHESES

Mortality distribution tables show the percent of estimated landed catch or total mortality for individual stocks attributed to specific fisheries. Landed catch mortalities are calculated from catch estimation and CWT sampling programs. Total mortality includes landed catch and incidental mortality (i.e., release mortality) which occurs in both retention and nonretention fisheries; incidental mortalities are estimated based on sampling data and/or internal algorithms (i.e., size-at-age vulnerability algorithms and gear-specific mortality rates). Mortality distribution within a calendar year sums to 100%.

Minimum criteria for reporting of distributions were applied to each calendar year and data that did not meet the minimum criteria (at least 3 ages and 105 estimated CWT recoveries) were either omitted or shaded. If only 1 age class was present in a calendar year, data from that year were omitted. If 2 age classes or less than 105 estimated CWTs were present in a calendar year, data from that year were shaded, but excluded from the calculation of the time period averages found at the bottom rows of the table. Where relevant, escapement includes interdam loss mortalities (i.e. Columbia River stocks).

Note that substantive changes have been made to the format of mortality distribution tables from previous reports (i.e., TCChinook (15)-1 V. 2). These changes include:

1. CWT database. A large number of changes have been made to the CWT database. The terminal fishery strays category was removed. These recoveries are now associated to the terminal fishery in which they occurred. A new freshwater fishery was created for Canadian terminal fishery impacts on the Taku and Stikine stocks.
2. Definition of strays. The Strays column in the mortality distribution layout was moved under escapement. Previously, strays included both escapement and terminal fisheries strays, but now it only includes escapement strays.
3. Revised table layout for AABM, ISBM, and terminal fisheries. The terminal fishery columns have been separated from the ISBM designation and by country. Impacts occurring in US and Canadian terminal fisheries include both marine and freshwater impacts. For the transboundary stocks (Taku and Stikine), the terminal fisheries (both US and Canada) are those under specific management provisions covered under Chapter 1. For all stocks, fishery impacts occurring in southern US terminal fisheries include freshwater impacts covered under the ISBM management framework. A small number of estimated recoveries of non-Alaskan hatchery stocks have occurred in Alaskan terminal fisheries and these recoveries are covered under the AABM management framework. For all stocks, fishery impacts occurring under Canadian terminal fisheries

include freshwater impacts covered under the ISBM management framework for all CWT indicator stocks.

4. New organization for Canadian ISBM fisheries. These are now presented by gear type in two regional groupings (southern BC and north/central BC).
5. New fishery. A new column for Washington Coast Net was included. Previous reports had placed Washington Coast Net as part of Puget Sound Net.
6. New stock. Tables for the Phillips River Fall CWT indicator stock have been included for the first time.

LIST OF APPENDIX C TABLES

Appendix C. 1– Percent distribution of Alaska Spring (Alaska South SE) total fishing mortalities among fisheries and escapement..... 13

Appendix C. 2– Percent distribution of Atnarko River (North/Central BC) total fishing mortalities among fisheries and escapement..... 14

Appendix C. 3– Percent distribution of Atnarko River (North/Central BC) 5-age ERA output total fishing mortalities among fisheries and escapement. 15

Appendix C. 4– Percent distribution of Big Qualicum River Fall (Lower Strait of Georgia Hatchery and Natural) total fishing mortalities among fisheries and escapement..... 16

Appendix C. 5– Percent distribution of Chilliwack River Fall (Fraser Late) total fishing mortalities among fisheries and escapement..... 17

Appendix C. 6– Percent distribution of Chilkat River total fishing mortalities among fisheries and escapement. 18

Appendix C. 7– Percent distribution of Cowichan River Fall (Lower Strait of Georgia Natural) total fishing mortalities among fisheries and escapement. 19

Appendix C. 8– Percent distribution of Cowlitz Fall Tule (Fall Cowlitz Hatchery) total fishing mortalities among fisheries and escapement. 20

Appendix C. 9– Percent distribution of Dome Creek Spring (Fraser Early) total fishing mortalities among fisheries and escapement..... 21

Appendix C. 10– Percent distribution of Elk River (Oregon Coast) total fishing mortalities among fisheries and escapement..... 22

Appendix C. 11– Percent distribution of Elwha River total fishing mortalities among fisheries and escapement. 23

Appendix C. 12– Percent distribution of George Adams Fall Fingerling total fishing mortalities among fisheries and escapement..... 24

Appendix C. 13– Percent distribution of Hanford Wild Brights total fishing mortalities among fisheries and escapement..... 25

Appendix C. 14– Percent distribution of Harrison River (Fraser Late) total fishing mortalities among fisheries and escapement..... 26

Appendix C. 15– Percent distribution of Hoko Fall Fingerling total fishing mortalities among fisheries and escapement. 27

Appendix C. 16– Percent distribution of Kitsumkalum River Summer (North/Central BC) total fishing mortalities among fisheries and escapement. 28

Appendix C. 18– Percent distribution of Lewis River Wild (Lewis River Wild) total fishing mortalities among fisheries and escapement. 30

Appendix C. 19– Percent distribution of Lyons Ferry (Lyons Ferry Hatchery) total fishing mortalities among fisheries and escapement. 31

Appendix C. 20– Percent distribution of Lyons Ferry Yearling total fishing mortalities among fisheries and escapement. 32

Appendix C. 21– Percent distribution of Middle Shuswap River Summer (Fraser Early) total fishing mortalities among fisheries and escapement. 33

Appendix C. 22– Percent distribution of Nanaimo River Fall (Lower Strait of Georgia Natural) total fishing mortalities among fisheries and escapement. 34

Appendix C. 23– Percent distribution of Nicola River Spring (Fraser Early) total fishing mortalities among fisheries and escapement. 35

Appendix C. 24– Percent distribution of Nisqually Fall Fingerling total fishing mortalities among fisheries and escapement. 36

Appendix C. 25– Percent distribution of Nooksack Spring Yearling (Nooksack Spring Yearling) total fishing mortalities among fisheries and escapement. 37

Appendix C. 26–Percent distribution of Nooksack Spring Fingerling (Nooksack Spring Yearling) total fishing mortalities among fisheries and escapement. 38

Appendix C. 27–Percent distribution of Phillips River Fall (Upper Strait of Georgia) AEQ total fishing mortalities and escapement. 39

Appendix C. 28– Percent distribution of Puntledge River Summer (Lower Strait of Georgia Hatchery) AEQ total fishing mortalities and escapement. 40

Appendix C. 29– Percent distribution of Queets Fall Fingerling (Washington Coastal Wild) total fishing mortalities among fisheries and escapement. 41

Appendix C. 30– Percent distribution of Queets Fall Fingerling (Washington Coastal Wild) 5-age ERA output total fishing mortalities among fisheries and escapement. 42

Appendix C. 31– Percent distribution of Quinsam River Fall (Upper Strait of Georgia) total fishing mortalities among fisheries and escapement. 43

Appendix C. 32– Percent distribution of Quinsam River Fall (Upper Strait of Georgia) 5-age ERA output total fishing mortalities among fisheries and escapement. 44

Appendix C. 33– Percent distribution of Robertson Creek Fall (WCVI Hatchery and Natural) total fishing mortalities among fisheries and escapement. 45

Appendix C. 34– Percent distribution of Samish Fall Fingerling (Nooksack Fall Fingerling) total fishing mortalities among fisheries and escapement. 46

Appendix C. 35– Percent distribution of Lower Shuswap River Summer (Fraser Early) total fishing mortalities among fisheries and escapement. 47

Appendix C. 36– Percent distribution of Skagit Spring Fingerling total fishing mortalities among fisheries and escapement. 48

Appendix C. 37– Percent distribution of Skagit Spring Yearling total fishing mortalities among fisheries and escapement. 49

Appendix C. 38– Percent distribution of Skykomish Fall Fingerling (Snohomish Wild) total fishing mortalities among fisheries and escapement. 50

Appendix C. 39– Percent distribution of Sooes (now Tsoo-Yess) Fall Fingerling (Washington Coastal Wild) total fishing mortalities among fisheries and escapement. 51

Appendix C. 40– Percent distribution of Spring Creek Tule (Spring Creek Hatchery) total fishing mortalities among fisheries and escapement. 52

Appendix C. 41– Percent distribution of South Puget Sound Fall Fingerling (Puget Sound Hatchery Fingerling) total fishing mortalities among fisheries and escapement. 53

Appendix C. 42– Percent distribution of South Puget Sound Fall Yearling (Puget Sound Hatchery Yearling) total fishing mortalities among fisheries and escapement. 54

Appendix C. 43– Percent distribution of Squaxin Pens Fall Yearling (Puget Sound Hatchery Yearling) total fishing mortalities among fisheries and escapement. 55

Appendix C. 44– Percent distribution of Salmon River (Oregon Coast) total fishing mortalities among fisheries and escapement. 56

Appendix C. 45– Percent distribution of Salmon River (Oregon Coast) 5-age ERA output total fishing mortalities among fisheries and escapement. 57

Appendix C. 46– Percent distribution of Skagit Summer Fingerling (Skagit Wild) total fishing mortalities among fisheries and escapement. 58

Appendix C. 47– Percent distribution of Stikine River total fishing mortalities among fisheries and escapement. 59

Appendix C. 48– Percent distribution of Stillaguamish Fall Fingerling (Stillaguamish Wild) total fishing mortalities among fisheries and escapement. 60

Appendix C. 49– Percent distribution of Columbia River Summers (Columbia River Summer) total fishing mortalities among fisheries and escapement. 61

Appendix C. 50– Percent distribution of Taku River total fishing mortalities among fisheries and escapement. 62

Appendix C. 51–. Percent distribution of Unuk River total fishing mortalities among fisheries and escapement. 63

Appendix C. 52– Percent distribution of Columbia River Upriver Bright (Columbia River Upriver Brights) total fishing mortalities among fisheries and escapement. 64

Appendix C. 53– Percent distribution of University Of Washington Accelerated total fishing mortalities among fisheries and escapement. 65

Appendix C. 54– Percent distribution of White River Spring Yearling total fishing mortalities among fisheries and escapement. 66

Appendix C. 55– Percent distribution of Willamette Spring (Willamette River Hatchery) total fishing mortalities among fisheries and escapement. 67

Appendix C. 1– Percent distribution of Alaska Spring (Alaska South SE) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	242	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	2065	3,4	55.5	5.8	3.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.6
1981	1122	3,4,5	44.9	2.9	10.3	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	31.3
1982	3023	3,4,5,6	27.0	4.6	4.9	1.1	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.2	57.4
1983	6547	3,4,5,6	34.0	1.1	8.1	1.9	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	51.2
1984	12121	3,4,5,6	27.5	2.2	16.2	0.9	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.1	50.6
1985	19143	3,4,5,6	28.1	10.2	12.8	1.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.4	45.3
1986	19643	3,4,5,6	26.4	11.9	12.3	0.6	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	44.8
1987	18781	3,4,5,6	33.8	4.9	7.0	0.4	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	45.9
1988	17164	3,4,5,6	31.3	4.8	10.0	1.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.3	44.9
1989	14297	3,4,5,6	23.2	15.1	9.5	0.6	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.8	41.1
1990	17191	3,4,5,6	36.5	6.2	9.2	2.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.5	34.6
1991	15897	3,4,5,6	37.2	6.2	10.1	0.6	0.2	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	33.7
1992	10203	3,4,5,6	18.8	31.9	8.8	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	30.1
1993	6781	3,4,5,6	21.4	7.2	12.3	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	46.1
1994	8285	3,4,5,6	14.6	34.5	10.2	0.4	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	33.3
1995	6924	3,4,5,6	28.4	7.7	11.9	0.3	0.3	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	8.8	0.1	0.0	0.0	0.0	0.0	0.0	2.0	33.1
1996	6819	3,4,5,6	24.3	5.9	15.6	0.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	5.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	32.4
1997	6064	3,4,5,6	24.8	5.5	14.8	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	32.8
1998	4264	3,4,5,6	25.5	10.3	13.9	0.0	1.3	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.0	3.4	1.4	0.0	0.0	0.0	0.0	0.0	1.1	29.9
1999	6632	3,4,5,6	20.9	3.2	17.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	3.0	2.6	0.0	0.0	0.0	0.0	0.0	0.9	40.5
2000	7153	3,4,5,6	23.5	3.9	13.4	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	2.7	3.6	0.0	0.0	0.0	0.0	0.0	0.4	43.9
2001	7280	3,4,5,6	17.4	2.6	5.5	0.2	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	1.9	5.4	0.0	0.0	0.0	0.0	0.0	0.2	58.1
2002	6373	3,4,5,6	13.1	2.3	5.4	1.1	0.7	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	2.4	5.9	0.0	0.0	0.0	0.0	0.0	0.2	62.4
2003	6262	3,4,5,6	17.6	2.1	5.6	0.8	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.4	58.8
2004	9055	3,4,5,6	18.2	7.0	4.1	0.5	0.5	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.5	3.3	0.0	0.0	0.0	0.0	0.0	0.5	56.8
2005	9122	3,4,5,6	26.4	7.1	8.9	0.4	0.4	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.1	3.6	0.0	0.0	0.0	0.0	0.0	0.1	33.3
2006	11455	3,4,5,6	35.0	4.7	5.1	0.7	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	2.1	2.0	0.0	0.0	0.0	0.0	0.0	0.6	40.3
2007	11393	3,4,5,6	31.0	7.1	5.6	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	1.3	1.2	0.0	0.0	0.0	0.0	0.0	0.8	43.0
2008	10459	3,4,5,6	21.2	4.6	2.6	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	1.2	1.7	0.0	0.0	0.0	0.0	0.0	0.2	54.0
2009	8160	3,4,5,6	17.2	4.3	2.5	0.5	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	6.3	1.8	0.0	0.0	0.0	0.0	0.0	1.1	57.9
2010	6149	3,4,5,6	18.2	4.6	7.1	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	2.4	1.6	0.0	0.0	0.0	0.0	0.0	1.0	55.8
2011	6377	3,4,5,6	13.1	8.7	3.6	0.4	0.2	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.7	56.3
2012	4147	3,4,5,6	26.4	9.4	4.0	0.5	0.3	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	15.0	1.0	0.0	0.0	0.0	0.0	0.0	2.1	27.0
2013	6394	3,4,5,6	15.5	13.3	2.2	0.2	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	13.8	0.8	0.0	0.0	0.0	0.0	0.0	2.9	39.2
2014	5466	3,4,5,6	23.8	7.5	2.5	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	16.9	0.4	0.0	0.0	0.0	0.0	0.0	1.0	39.3
2015	6304	3,4,5,6	24.2	13.0	2.4	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	16.8	1.3	0.0	0.0	0.0	0.0	0.0	3.2	27.2
79–84	5703		33.3	2.7	9.9	1.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.2	47.7
85–95	14028		27.3	12.8	10.4	0.7	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.9	39.4
96–98	5716		24.8	7.2	14.8	0.0	0.4	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	4.1	0.5	0.0	0.0	0.0	0.0	0.0	1.1	31.7
99–08	8518		22.4	4.5	7.3	0.4	0.4	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	1.5	3.4	0.0	0.0	0.0	0.0	0.0	0.4	49.1
09–15	6142		19.8	8.7	3.5	0.3	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3	10.7	1.2	0.0	0.0	0.0	0.0	0.0	1.7	43.3

Appendix C. 2– Percent distribution of Atnarko River (North/Central BC) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	5	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	35	2,3	17.1	40.0	0.0	17.1	2.9	0.0	0.0	0.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990	144	2,3,4	20.1	3.5	0.0	2.1	0.7	0.7	0.0	4.9	14.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	50.7
1991	784	2,3,4,5	6.8	0.0	0.0	1.3	1.1	0.4	0.0	0.4	19.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.4	0.0	0.0	0.0	0.0	62.9
1992	968	2,3,4,5	9.0	0.0	0.0	1.9	1.9	0.3	0.0	5.4	17.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	1.9	0.0	0.0	0.0	0.0	56.2
1993	1333	2,3,4,5	9.8	0.8	0.6	4.6	2.1	0.5	0.0	1.2	12.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	0.0	0.0	0.0	0.0	61.6
1994	1691	2,3,4,5	7.5	0.2	0.2	1.5	1.8	0.0	0.0	2.6	18.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.8	0.0	0.0	0.0	0.0	64.5
1995	2325	2,3,4,5	4.5	0.1	1.2	1.1	2.8	0.0	0.0	0.3	15.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	3.4	0.0	0.0	0.0	0.0	65.7
1996	2071	2,3,4,5	2.6	0.0	0.5	0.2	0.6	0.0	0.0	0.0	11.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.7	0.0	0.0	0.0	0.0	72.9
1997	1142	2,3,4,5	4.4	0.0	1.6	0.2	3.2	0.0	0.0	0.4	9.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	4.5	0.0	0.0	0.0	0.0	67.3
1998	1071	2,3,4,5	7.4	0.0	0.4	0.0	4.9	0.0	0.0	0.0	13.0	1.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.1	3.4	0.0	0.0	0.0	0.0	59.7
1999	1432	2,3,4,5	5.8	0.0	2.6	0.0	2.9	0.0	0.0	0.0	7.1	1.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	3.7	0.0	0.0	0.0	0.0	72.2
2000	1046	2,3,4,5	6.4	0.1	0.0	0.0	3.5	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.6	4.1	0.0	0.0	0.0	0.0	71.3
2001	679	2,3,4,5	6.6	0.0	1.6	0.0	2.2	0.3	0.0	0.0	13.0	0.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.7	4.1	0.0	0.0	0.0	0.0	62.4
2002	738	2,3,4,5	5.0	0.1	0.5	9.1	4.1	0.8	0.0	0.0	15.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	1.8	0.0	0.0	0.0	0.0	53.5
2003	612	2,3,4,5	5.1	0.2	0.0	2.9	5.9	0.0	0.0	0.0	23.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	3.4	0.0	0.0	0.0	0.0	42.2
2004	709	2,3,4,5	9.9	0.0	0.0	3.4	5.8	0.0	0.0	0.0	19.9	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	1.3	0.0	0.0	0.0	0.0	46.8
2005	928	3,4,5	13.1	0.1	0.9	4.5	6.0	0.0	0.0	0.0	15.5	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	2.0	0.0	0.0	0.0	0.0	40.9
2006	1413	4,5	8.7	0.0	1.1	2.3	2.4	0.0	0.0	0.0	8.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2.5	0.0	0.0	0.0	0.0	64.8
2007	384	2,5	11.7	0.0	2.3	1.3	3.9	0.5	0.0	0.0	16.9	5.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.6	0.0	0.0	0.0	0.0	49.0
2008	150	2,3	6.7	0.0	0.7	2.0	0.0	0.0	0.0	0.0	8.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	76.0
2009	683	2,3,4	9.4	0.0	0.0	3.2	3.4	0.0	0.0	0.0	22.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	3.5	0.0	0.0	0.0	0.0	45.7
2010	824	2,3,4,5	11.3	0.1	0.6	2.9	1.7	0.0	0.0	0.0	13.2	6.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	1.9	0.0	0.0	0.0	0.0	50.6
2011	568	2,3,4,5	14.1	0.0	0.5	8.5	3.2	0.0	0.0	0.0	21.7	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.9	0.0	0.0	0.0	0.0	36.6
2012	869	2,3,4,5	12.7	0.6	0.8	2.3	2.2	0.0	0.0	0.0	16.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	50.2
2013	3024	2,3,4,5	4.3	0.4	0.4	1.5	1.4	0.0	0.0	0.0	9.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	9.1	5.1	0.0	0.0	0.0	67.3
2014	3294	2,3,4,5	6.1	0.4	0.4	2.5	1.4	0.2	0.2	0.0	6.9	4.3	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	4.8	0.0	0.0	0.0	63.1
2015	8402	3,4,5	3.5	0.0	0.4	0.9	2.4	0.2	0.0	0.0	7.9	3.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.2	0.0	0.0	0.0	73.7
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	1208		9.6	0.8	0.3	2.1	1.7	0.3	0.0	2.5	16.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.0	0.0	0.0	0.0	0.0	60.3
96–98	1428		4.8	0.0	0.8	0.1	2.9	0.0	0.0	0.1	11.2	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	4.5	0.0	0.0	0.0	0.0	66.6
99–08	878		7.4	0.1	0.8	2.8	4.3	0.2	0.0	0.0	14.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2	2.9	0.0	0.0	0.0	0.0	55.6
09–15	2523		8.8	0.2	0.5	3.1	2.2	0.1	0.0	0.0	14.0	4.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	2.5	0.0	0.0	0.0	0.0	55.3

Appendix C. 3– Percent distribution of Atnarko River (North/Central BC) 5-age ERA output total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	5	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	35	2,3	17.1	40.0	0.0	17.1	2.9	0.0	0.0	0.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1990	145	2,3,4	20.7	3.4	0.0	2.1	0.7	0.7	0.0	4.8	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	50.3
1991	771	2,3,4,5	7.4	0.1	0.0	1.7	1.3	0.5	0.0	1.0	20.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.5	0.0	0.0	0.0	0.0	60.4
1992	981	2,3,4,5,6	8.9	0.0	0.0	1.8	1.8	0.3	0.0	5.3	18.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.6	1.8	0.0	0.0	0.0	0.0	56.4
1993	1357	2,3,4,5,6	10.4	0.8	0.6	4.5	2.1	0.4	0.0	1.2	13.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.1	0.0	0.0	0.0	0.0	61.2
1994	1697	2,3,4,5,6	7.5	0.2	0.2	1.5	1.8	0.0	0.0	2.5	18.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.8	0.0	0.0	0.0	0.0	64.6
1995	2340	2,3,4,5,6	4.6	0.1	1.2	1.1	2.7	0.0	0.0	0.3	15.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	3.5	0.0	0.0	0.0	0.0	65.4
1996	2056	2,3,4,5,6	2.6	0.0	0.5	0.2	0.6	0.0	0.0	0.0	11.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	5.7	0.0	0.0	0.0	0.0	72.3
1997	1167	2,3,4,5,6	4.5	0.0	1.5	0.2	3.1	0.0	0.0	0.4	9.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	4.4	0.0	0.0	0.0	0.0	67.7
1998	1059	2,3,4,5,6	7.4	0.0	0.4	0.0	4.9	0.0	0.0	0.0	13.1	1.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	3.4	0.0	0.0	0.0	0.0	59.3
1999	1444	2,3,4,5,6	5.7	0.0	2.6	0.0	2.9	0.0	0.0	0.0	7.1	1.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2	3.7	0.0	0.0	0.0	0.0	72.4
2000	1044	2,3,4,5,6	6.4	0.1	0.0	0.0	3.5	0.0	0.0	0.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.1	0.0	0.0	0.0	0.0	70.9
2001	678	2,3,4,5,6	6.6	0.0	1.6	0.0	2.2	0.3	0.0	0.0	13.0	0.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	4.1	0.0	0.0	0.0	0.0	62.2
2002	744	2,3,4,5,6	5.0	0.1	0.5	9.0	4.0	0.8	0.0	0.0	15.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	2.3	0.0	0.0	0.0	0.0	53.2
2003	635	2,3,4,5,6	4.9	0.2	0.0	2.8	5.7	0.0	0.0	0.0	23.1	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.8	0.0	0.0	0.0	0.0	41.7
2004	685	2,3,4,5,6	10.2	0.0	0.0	3.5	5.8	0.0	0.0	0.0	20.9	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	1.3	0.0	0.0	0.0	0.0	44.7
2005	932	3,4,5,6	13.1	0.1	0.9	4.5	6.0	0.0	0.0	0.0	15.7	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	2.0	0.0	0.0	0.0	0.0	41.0
2006	1422	4,5,6	8.6	0.0	1.1	2.3	2.4	0.0	0.0	0.0	8.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2.5	0.0	0.0	0.0	0.0	64.9
2007	408	2,5,6	11.8	0.0	2.2	1.2	3.7	0.5	0.0	0.0	16.4	5.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	2.5	0.0	0.0	0.0	0.0	50.2
2008	153	2,3,6	7.2	0.0	0.7	2.0	0.0	0.0	0.0	0.0	9.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	74.5
2009	683	2,3,4	9.4	0.0	0.0	3.2	3.4	0.0	0.0	0.0	22.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.4	3.5	0.0	0.0	0.0	0.0	45.7
2010	821	2,3,4,5	11.1	0.1	0.6	3.0	1.7	0.0	0.0	0.0	13.3	6.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	1.9	0.0	0.0	0.0	0.0	50.8
2011	579	2,3,4,5,6	13.8	0.0	0.5	8.3	3.1	0.0	0.0	0.0	21.2	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	2.8	0.0	0.0	0.0	0.0	35.9
2012	857	2,3,4,5,6	12.5	0.6	0.8	2.1	2.1	0.0	0.0	0.0	16.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.0	0.0	0.0	0.0	50.2
2013	3022	2,3,4,5,6	4.3	0.3	0.4	1.4	1.4	0.0	0.0	0.0	9.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	9.1	5.1	0.0	0.0	0.0	0.0	67.6
2014	3248	2,3,4,5,6	5.8	0.4	0.4	2.3	1.3	0.2	0.2	0.0	7.0	4.1	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	4.8	0.0	0.0	0.0	0.0	63.6
2015	8334	3,4,5,6	3.1	0.0	0.4	0.8	2.2	0.2	0.0	0.0	8.0	3.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.4	0.0	0.0	0.0	0.0	74.4
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	1215		9.9	0.8	0.3	2.1	1.7	0.3	0.0	2.5	16.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.0	0.0	0.0	0.0	0.0	59.7
96–98	1427		4.8	0.0	0.8	0.1	2.9	0.0	0.0	0.1	11.3	1.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	4.5	0.0	0.0	0.0	0.0	66.4
99–08	814		8.0	0.0	1.0	2.5	3.6	0.2	0.0	0.0	13.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.6	0.0	0.0	0.0	0.0	57.6
09–15	2506		8.6	0.2	0.4	3.0	2.2	0.0	0.0	0.0	14.0	3.8	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	2.8	0.0	0.0	0.0	0.0	55.5

Appendix C. 4– Percent distribution of Big Qualicum River Fall (Lower Strait of Georgia Hatchery and Natural) total fishing mortalities among fisheries and escapement.

Catch	Est # of		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC		Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	5085	2,3,4,5	4.3	0.7	0.4	1.9	0.0	2.5	0.0	10.5	4.1	0.1	21.0	7.8	18.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	27.9
1980	2919	2,3,4,5	1.6	1.6	0.4	4.7	0.0	4.7	0.0	7.2	3.5	0.3	15.2	9.5	24.9	0.1	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	25.9
1981	1536	2,3,4,5	2.3	0.1	0.4	1.4	0.0	1.6	0.0	12.4	4.6	0.0	17.5	9.4	38.2	0.0	0.0	0.0	0.0	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3
1982	787	2,3,4,5	5.6	0.6	1.3	4.7	0.0	4.6	0.0	6.1	8.5	0.3	12.6	11.8	13.1	0.0	0.0	0.0	0.0	0.0	0.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1	29.0
1983	693	2,3,4,5	5.5	0.3	0.9	5.1	0.0	1.2	0.0	7.1	4.6	0.3	14.4	14.1	24.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5
1984	554	2,3,4,5	2.2	0.4	0.0	1.4	0.0	1.6	0.0	7.0	3.8	1.1	9.0	6.1	48.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6
1985	804	2,3,4,5	6.6	1.1	0.0	2.1	0.0	1.6	0.0	4.4	6.6	0.6	2.4	12.1	33.5	0.0	0.0	0.0	0.0	0.1	1.2	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.9	0.0	0.2	25.2
1986	1346	2,3,4,5	2.9	0.4	0.0	0.7	0.0	1.4	0.0	13.6	7.8	0.8	10.0	6.9	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	18.0
1987	796	2,3,4,5	10.1	0.0	0.9	4.3	0.0	4.6	0.0	2.8	2.5	0.0	2.1	5.0	32.4	0.8	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9
1988	547	2,3,4,5	2.4	1.8	0.0	2.2	0.0	2.7	0.0	1.1	8.2	0.0	1.6	3.8	45.9	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.4	28.2
1989	632	2,3,4,5	3.5	5.1	0.8	3.5	0.0	4.9	0.0	0.5	0.8	0.0	1.9	7.0	42.2	0.3	0.0	0.0	0.0	0.0	0.0	1.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	26.7
1990	781	2,3,4,5	4.5	4.4	0.0	6.5	1.7	2.9	0.0	1.5	6.1	0.0	3.6	9.7	24.8	0.1	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.5	30.6
1991	797	2,3,4,5	2.8	3.4	0.0	2.3	0.0	1.9	0.0	1.3	2.5	0.6	5.9	4.6	44.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.0	0.9	27.7
1992	765	2,3,4,5	3.1	5.2	2.4	5.4	0.0	3.1	0.0	5.5	1.2	1.2	9.7	3.1	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.4	0.0	1.0	18.7
1993	523	2,3,4,5	1.3	2.3	0.0	1.7	0.0	1.7	0.0	4.2	2.3	0.0	4.2	5.7	50.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	24.7
1994	278	2,3,4,5	5.0	0.0	0.0	1.4	1.8	2.9	0.0	1.4	3.2	0.0	5.0	1.4	32.7	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.4	41.0
1995	248	2,3,4,5	6.9	0.0	0.0	1.6	0.0	0.0	0.0	0.0	8.1	0.0	0.0	2.8	30.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.4	49.2
1996	371	2,3,4,5	3.0	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.8	0.8	0.0	0.3	56.9	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	36.1
1997	234	2,3,4,5	4.3	0.0	0.0	3.4	0.0	0.0	2.1	3.4	1.7	1.7	0.9	3.0	34.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	44.4
1998	209	2,3,4,5	7.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	28.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	59.3
1999	297	2,3,4,5	6.1	2.0	0.0	3.7	2.4	0.0	0.0	3.7	0.0	0.0	0.0	0.0	20.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.7	58.9
2000	248	2,3,4,5	16.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	60.9
2001	528	2,3,4,5	5.3	10.4	0.0	0.0	9.3	0.6	0.0	0.0	0.0	0.9	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.7	58.1
2002	339	2,3,4,5	10.0	0.0	3.2	3.5	0.0	1.8	3.2	0.0	0.0	3.2	0.0	5.0	13.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	2.4	51.9
2003	259	2,3,4,5	8.5	0.4	1.9	0.0	0.0	3.5	0.0	0.0	0.0	10.0	0.0	0.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	56.0
2004	407	2,3,4,5	8.6	0.0	0.2	5.4	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	15.2	0.5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	2.0	65.4
2005	600	2,3,4,5	9.7	0.3	0.0	2.0	0.0	5.3	2.8	0.0	1.0	2.5	0.0	0.0	22.2	0.5	0.7	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	1.2	49.2
2006	621	2,3,4,5	5.2	3.5	1.0	1.6	0.0	0.6	0.0	0.0	0.0	2.9	0.0	0.0	9.7	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	74.4
2007	621	2,3,4,5	12.4	0.6	0.3	5.3	3.2	0.6	2.3	0.0	1.0	1.3	0.0	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.5	55.6
2008	435	2,3,4,5	5.1	0.9	0.2	1.8	0.0	0.9	3.0	0.0	0.0	4.1	0.0	0.5	19.3	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.2	57.5
2009	557	2,3,4,5	4.7	5.6	0.0	2.0	0.0	1.4	2.5	0.0	0.0	1.6	0.0	0.0	16.2	0.5	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.6	62.3
2010	476	2,3,4,5	6.3	0.2	1.5	1.7	0.0	1.1	3.8	0.0	0.0	1.5	0.0	0.0	20.6	1.9	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.8	59.2
2011	523	2,3,4,5	8.0	1.7	2.1	0.0	1.3	1.1	0.0	0.0	0.0	3.8	0.0	0.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.1	0.0	1.0	65.6
2012	545	2,3,4,5	7.7	1.7	0.0	3.1	1.5	2.9	0.0	0.0	0.0	2.9	0.0	0.0	26.8	0.6	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	49.9
2013	900	2,3,4,5	2.2	1.8	0.0	1.3	0.6	0.4	2.0	0.0	0.0	1.3	0.0	0.0	27.0	0.2	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.3	0.0	0.6	0.0	0.2	61.0
2014	1841	2,3,4,5	3.4	2.0	0.3	1.3	0.4	0.4	2.5	0.0	0.0	0.9	0.0	0.0	42.9	0.4	0.1	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	44.5
2015	2087	2,3,4,5	4.8	0.5	0.4	0.8	0.2	1.1	0.8	0.0	0.1	1.5	0.0	0.0	25.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	64.3
79–84	1929		3.6	0.6	0.6	3.2	0.0	2.7	0.0	8.4	4.8	0.3	15.0	9.8	27.9	0.0	0.0	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	22.4
85–95	683		4.5	2.2	0.4	2.9	0.3	2.5	0.0	3.3	4.5	0.3	4.2	5.7	37.4	0.2	0.0	0.0	0.0	0.0	0.5	0.4	0.1	0.0	0.0	0.1	0.6	0.0	0.1	0.0	0.5	29.4
96–98	271		4.8	0.2	0.0	1.3	0.0	0.1	0.7	1.1	0.8	1.5	0.3	1.1	40.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	46.6
99–08	436		8.7	2.0	0.7	2.3	1.5	1.5	1.1	0.4	0.2	2.5	0.0	0.5	16.3	0.1	0.2	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	58.8
09–15	990		5.3	1.9	0.6	1.5	0.6	1.2	1.7	0.0	0.0	1.9	0.0	0.0	24.5	0.5	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.3	0.0	0.4	0.0	0.7	58.1

Appendix C. 5– Percent distribution of Chilliwack River Fall (Fraser Late) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	3193	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	4638	2,3	0.0	0.0	0.0	0.5	0.0	26.6	0.1	4.7	0.2	0.0	13.8	4.2	22.3	1.9	0.0	0.3	0.1	0.3	0.8	2.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.3	20.3
1985	2351	2,3,4	1.0	0.1	0.0	0.3	0.0	32.6	0.0	2.2	0.7	0.0	6.0	5.5	21.4	3.7	0.4	0.1	0.0	0.5	2.8	4.2	0.0	0.0	0.0	0.0	1.0	0.0	0.3	0.0	4.8	12.5
1986	2150	2,3,4,5	0.0	0.0	0.0	0.8	0.0	20.2	0.0	2.6	1.5	0.2	9.4	11.8	18.4	2.7	0.2	0.0	0.0	1.0	2.0	7.7	0.0	0.0	0.0	0.0	1.3	0.0	0.5	0.0	1.1	18.7
1987	2709	2,3,4,5	0.0	0.0	0.0	0.8	0.0	18.6	0.5	0.4	0.3	0.0	15.6	2.7	18.6	3.8	0.1	0.1	0.0	0.4	2.5	2.7	0.0	0.0	0.0	0.0	1.1	0.0	0.4	0.0	1.9	29.3
1988	2450	2,3,4,5	0.4	0.1	0.0	0.2	0.0	17.6	0.0	0.0	0.1	0.0	6.3	3.7	12.8	4.0	0.1	0.1	0.0	0.0	2.7	2.7	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	2.3	44.5
1989	1304	2,3,4,5	0.2	0.0	0.0	0.0	0.0	23.1	0.0	0.0	0.5	0.0	1.7	3.1	20.4	4.4	0.2	1.2	0.0	0.0	2.8	1.3	0.0	0.0	0.0	0.0	0.5	0.0	0.3	0.0	2.1	38.3
1990	1724	2,3,4,5	0.9	0.0	0.0	0.0	0.0	10.8	2.1	0.1	1.3	0.0	3.5	1.9	17.2	6.3	0.5	0.0	0.0	0.0	8.5	7.6	0.0	0.0	0.0	1.8	1.1	0.0	0.6	0.0	4.2	31.4
1991	3103	2,3,4,5	0.2	0.1	0.0	0.4	0.0	19.4	0.5	0.2	0.8	0.0	9.1	1.8	16.1	12.9	0.2	0.4	0.0	0.0	3.6	5.2	0.0	0.0	0.0	2.4	1.5	0.0	0.6	0.0	1.0	23.5
1992	4222	2,3,4,5	0.3	0.0	0.0	0.1	0.0	19.8	0.1	0.7	0.3	0.0	6.5	0.8	10.7	8.6	0.1	0.0	0.0	0.0	0.8	3.5	0.0	0.0	0.0	0.5	1.1	0.0	0.0	0.0	1.5	44.6
1993	2027	2,3,4,5	0.2	0.0	0.0	0.0	0.0	13.0	0.3	0.0	0.0	0.0	8.0	0.1	7.2	7.2	0.0	0.2	0.0	0.0	0.0	1.1	0.0	0.0	0.0	1.3	2.0	0.0	0.0	0.0	2.1	57.4
1994	718	2,3,4,5	0.4	0.3	0.0	0.7	0.0	8.5	0.0	0.4	1.7	0.0	3.3	4.2	10.2	1.5	0.0	0.0	0.0	0.0	2.8	6.1	0.0	0.0	0.0	1.5	5.8	0.0	0.4	0.0	0.0	52.1
1995	2213	2,3,4,5	0.0	0.0	0.0	0.0	0.0	12.7	0.5	0.0	0.8	0.0	0.0	0.4	8.1	1.1	0.0	0.0	0.0	0.0	1.0	2.5	0.0	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	70.0
1996	1769	2,3,4,5	0.2	0.0	0.0	0.0	0.0	2.0	0.4	0.0	1.1	0.0	0.0	0.2	21.8	2.9	0.2	1.2	0.0	0.0	0.6	4.4	0.0	0.0	0.0	0.8	2.5	0.0	0.3	0.0	0.1	61.3
1997	2407	2,3,4,5	0.5	0.0	0.0	0.1	0.0	12.8	0.9	0.3	0.6	0.0	0.0	0.6	16.4	3.3	0.1	1.3	0.1	0.0	1.7	3.9	0.0	0.0	0.0	2.6	2.5	0.0	0.5	0.0	0.0	51.8
1998	3192	2,3,4,5	0.5	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.0	4.2	2.1	0.0	1.2	0.0	0.0	0.3	0.9	0.0	0.0	0.0	0.2	1.3	0.0	0.0	0.0	0.5	88.5
1999	3389	2,3,4,5	0.1	0.0	0.0	0.2	0.0	0.3	1.4	0.0	0.0	0.0	0.0	0.0	11.6	13.0	0.5	0.5	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.4	1.6	0.0	0.6	0.0	0.3	68.9
2000	2707	2,3,4,5	0.1	0.0	0.0	0.0	0.0	5.9	2.5	0.0	0.0	0.4	0.0	0.0	5.3	4.4	0.1	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	2.4	0.0	0.5	0.0	0.0	77.3
2001	4239	2,3,4,5	0.0	0.0	0.0	0.0	0.0	3.7	1.6	0.0	0.0	0.2	0.0	0.0	9.2	5.6	0.4	0.6	0.0	0.0	0.3	4.8	0.0	0.0	0.0	0.2	12.7	0.0	0.5	0.0	0.0	60.2
2002	5138	2,3,4,5	0.3	0.0	0.0	0.1	0.0	8.2	4.3	0.0	0.1	0.2	0.0	0.0	4.8	7.4	1.2	0.6	0.0	0.0	0.1	2.0	0.0	0.0	0.0	0.6	5.2	0.0	0.2	0.0	0.0	64.7
2003	4943	2,3,4,5	0.1	0.0	0.0	0.0	0.0	5.4	2.2	0.0	0.0	0.2	0.0	0.0	3.5	7.6	0.4	0.5	0.0	0.0	0.2	1.2	0.0	0.0	0.0	0.3	6.1	0.0	0.0	0.0	5.6	66.7
2004	6881	2,3,4,5	0.1	0.0	0.0	0.2	0.0	5.2	2.3	0.0	0.0	0.0	0.0	0.0	2.2	6.7	0.2	0.1	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.7	4.6	0.0	0.0	0.0	0.4	76.2
2005	4049	2,3,4,5	0.0	0.0	0.0	0.1	0.0	7.5	3.4	0.0	0.1	0.2	0.0	0.0	4.6	3.8	0.9	0.0	0.0	0.0	0.2	1.0	0.0	0.0	0.0	3.4	6.0	0.0	0.6	0.0	0.0	68.3
2006	3026	2,3,4,5	0.0	0.0	0.0	0.5	0.0	7.3	2.0	0.0	0.0	0.0	0.0	0.0	2.3	2.7	0.3	0.1	0.0	0.0	0.2	1.7	0.0	0.0	0.0	0.6	4.4	0.0	0.1	0.0	0.9	77.0
2007	1808	2,3,4,5	0.0	0.0	0.0	0.3	0.0	8.4	3.3	0.0	0.0	0.0	0.0	0.0	2.3	2.7	0.2	0.0	0.0	0.0	0.1	1.8	0.0	0.0	0.0	2.6	6.5	0.0	0.6	0.0	0.2	71.1
2008	2861	2,3,4,5	0.3	0.0	0.0	0.0	0.0	10.9	3.8	0.0	0.0	0.0	0.0	0.1	3.2	4.7	1.6	0.0	0.1	0.0	0.2	2.0	0.0	0.0	0.0	0.9	9.5	0.0	0.6	0.0	0.6	61.3
2009	2969	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.7	2.4	0.0	0.0	0.0	0.0	0.0	4.5	0.6	0.3	0.0	0.0	0.0	0.6	3.1	0.0	0.0	0.0	3.3	14.1	0.0	0.2	0.0	1.3	67.8
2010	5349	2,3,4,5	0.3	0.0	0.0	0.1	0.0	3.2	2.8	0.0	0.0	0.0	0.0	0.0	7.5	3.7	1.1	0.4	0.0	0.0	0.5	1.7	0.0	0.0	0.0	1.7	7.0	0.0	0.4	0.0	0.7	68.7
2011	4956	2,3,4,5	0.0	0.0	0.0	0.1	0.0	4.4	2.8	0.0	0.0	0.2	0.0	1.0	4.6	1.5	0.7	0.0	0.0	0.0	0.4	3.2	0.0	0.0	0.0	0.8	3.6	0.0	0.6	0.0	0.0	75.9
2012	5494	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.1	1.4	0.0	0.0	0.0	0.0	0.2	12.0	5.2	0.7	0.1	0.1	0.0	0.1	7.6	0.0	0.0	0.0	0.3	6.3	0.0	0.4	0.0	0.0	64.5
2013	13029	2,3,4,5	0.0	0.0	0.0	0.1	0.0	2.4	2.3	0.0	0.0	0.0	0.0	1.0	9.9	5.4	1.0	0.1	0.0	0.0	0.5	3.0	0.0	0.0	0.0	1.5	5.8	0.0	0.2	0.0	0.3	66.4
2014	11999	2,3,4,5	0.1	0.0	0.0	0.0	0.0	1.4	1.2	0.0	0.0	0.0	0.1	2.3	11.4	3.5	0.6	0.1	0.0	0.0	0.6	2.3	0.0	0.0	0.0	1.4	3.9	0.0	0.2	0.0	0.3	70.6
2015	6636	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.0	0.0	0.1	0.0	1.0	11.2	2.9	0.5	0.0	0.0	0.0	1.1	3.4	0.0	0.0	0.0	3.2	6.3	0.0	0.0	0.0	1.0	68.4
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	2270		0.3	0.1	0.0	0.3	0.0	17.9	0.4	0.6	0.7	0.0	6.3	3.3	14.6	5.1	0.2	0.2	0.0	0.2	2.7	4.0	0.0	0.0	0.0	0.9	1.7	0.0	0.3	0.0	1.9	38.4
96–98	2456		0.4	0.0	0.0	0.0	0.0	5.0	0.4	0.1	0.6	0.1	0.0	0.3	14.1	2.8	0.1	1.2	0.0	0.0	0.8	3.1	0.0	0.0	0.0	1.2	2.1	0.0	0.3	0.0	0.2	67.2
99–08	3904		0.1	0.0	0.0	0.1	0.0	6.3	2.7	0.0	0.0	0.1	0.0	0.0	4.9	5.9	0.6	0.2	0.0	0.0	0.1	1.7	0.0	0.0	0.0	1.0	5.9	0.0	0.4	0.0	0.8	69.2
09–15	7205		0.1	0.0	0.0	0.0	0.0	2.1	1.9	0.0	0.0	0.0	0.0	0.8	8.7	3.3	0.7	0.1	0.0	0.0	0.5	3.5	0.0	0.0	0.0	1.7	6.7	0.0	0.3	0.0	0.5	68.9

Appendix C. 6– Percent distribution of Chilkat River total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	64	3		Failed Criteria		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	311	3,4	1.0	4.5	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.9
2004	520	3,4,5	5.6	8.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.0
2005	561	3,4,5,6	5.2	4.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	86.1
2006	317	3,4,5,6	3.5	1.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.2
2007	294	3,4,5,6	6.5	9.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.8
2008	434	3,4,5,6	3.7	5.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.6
2009	595	3,4,5,6	3.4	1.7	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.1
2010	306	3,4,5,6	4.6	10.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.1
2011	358	3,4,5,6	7.3	7.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.3
2012	241	3,4,5,6	7.5	11.2	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.6
2013	340	3,4,5,6	1.5	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.4
2014	225	3,4,5,6	0.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.4
2015	103	4,5,6	7.8	24.3	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	425		4.9	6.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.2
09–15	344		4.0	10.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.2

Appendix C. 7– Percent distribution of Cowichan River Fall (Lower Strait of Georgia Natural) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			Stray	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	117	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	311	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	612	2,4	1.8	0.0	0.0	0.0	0.0	3.1	0.0	0.5	1.0	0.0	5.7	9.0	48.2	1.0	0.0	0.0	0.0	0.0	1.0	1.3	0.0	0.0	0.0	4.9	0.0	0.0	1.6	0.0	0.5	20.4
1990	2032	2,3,5	0.0	0.0	0.0	0.1	0.0	2.2	0.0	1.1	2.8	0.0	13.2	7.3	57.4	0.6	0.2	0.0	0.0	0.0	1.4	2.0	0.0	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.3	10.2
1991	4231	2,3,4	0.1	0.0	0.0	0.2	0.0	3.9	0.7	0.4	0.5	0.2	9.0	3.6	61.7	0.7	0.0	0.0	0.0	0.0	2.0	0.9	0.0	0.0	0.0	0.4	0.0	0.0	1.0	0.0	0.3	14.6
1992	4594	2,3,4,5	0.0	0.1	0.0	0.4	0.0	8.6	0.8	1.0	0.9	0.1	17.8	3.1	53.1	0.2	0.0	0.0	0.0	0.0	0.6	1.3	0.0	0.0	0.0	0.9	0.0	0.0	0.4	0.0	0.4	10.2
1993	4156	2,3,4,5	0.3	0.0	0.0	0.1	0.0	7.8	1.0	0.5	0.5	0.0	11.9	2.8	55.0	0.6	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	1.1	0.0	0.0	0.8	0.0	0.2	17.1
1994	1325	2,3,4,5	0.5	0.0	0.0	0.4	0.0	3.9	0.2	0.2	2.1	0.0	4.9	5.5	43.2	0.3	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.0	0.0	4.2	0.5	0.0	2.4	0.0	0.6	29.5
1995	1685	2,3,4,5	0.1	0.0	0.0	0.0	0.0	5.4	0.4	0.0	1.4	0.0	0.0	1.4	41.3	0.0	0.0	0.0	0.0	0.0	0.2	1.0	0.0	0.0	0.0	2.1	0.2	0.0	1.7	0.0	1.2	43.6
1996	1362	2,3,4,5	0.2	0.0	0.0	0.0	0.0	0.3	1.0	0.0	0.4	0.0	0.0	0.4	51.3	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	4.7	0.5	0.0	0.8	0.0	1.2	34.2
1997	917	2,3,4,5	1.0	0.0	0.0	0.0	0.0	3.3	0.9	0.0	0.3	0.4	0.0	1.0	27.5	0.0	0.0	0.0	0.0	0.0	1.7	3.5	0.0	0.0	0.0	0.3	0.4	0.0	0.9	0.0	0.8	58.0
1998	488	2,3,4,5	3.9	0.0	0.0	0.0	0.0	0.4	1.6	0.0	0.0	0.8	0.0	0.4	34.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	2.9	0.0	3.7	43.6
1999	577	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0	53.0	0.9	0.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	1.2	1.6	0.0	6.2	0.0	3.5	31.7
2000	793	2,3,4,5	0.9	0.4	0.0	0.0	0.0	1.3	4.8	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.5	0.5	0.0	4.2	0.0	1.3	59.0
2001	781	2,3,4,5	0.3	0.0	0.0	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.1	0.0	0.0	0.0	0.0	0.1	2.8	0.0	0.0	0.0	6.5	0.0	0.0	10.6	0.0	4.2	32.4
2002	708	2,3,4,5	1.6	0.0	0.0	0.0	0.0	3.5	1.6	0.0	0.0	1.0	0.0	0.0	37.7	0.3	0.0	0.3	0.0	0.0	0.4	6.2	0.0	0.0	0.0	8.1	2.4	0.0	3.2	0.0	2.7	31.1
2003	374	2,3,4,5	1.9	0.3	0.0	2.7	0.0	8.6	2.9	0.3	0.0	0.0	0.0	0.0	38.2	0.5	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	4.8	1.6	0.0	7.8	0.0	2.4	24.9
2004	353	2,3,4,5	0.0	0.3	0.0	0.8	0.0	12.5	6.8	0.0	0.0	2.0	0.0	0.0	30.9	2.5	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	1.7	0.0	0.0	9.3	0.0	7.4	23.5
2005	337	2,3,4,5	0.0	0.3	0.0	1.2	4.2	20.2	2.1	0.0	1.5	0.0	0.0	0.0	7.1	0.3	0.6	0.0	0.0	0.0	3.3	1.8	0.0	0.0	0.0	8.3	0.0	0.0	11.9	0.0	11.0	26.4
2006	278	3,4,5	0.0	0.0	0.0	0.7	0.0	21.6	2.2	0.0	0.0	0.0	0.0	0.0	21.2	2.9	0.7	0.0	0.0	0.0	0.7	5.4	0.0	0.0	0.0	6.8	0.0	0.0	4.7	0.0	4.7	28.4
2007	250	2,4,5	0.0	0.0	0.8	0.0	0.0	8.8	2.0	0.0	1.6	0.0	0.0	0.0	16.4	0.4	0.8	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	6.0	0.0	0.0	7.6	0.0	2.0	52.8
2008	276	2,3,5	0.0	0.0	0.4	0.0	0.0	12.0	7.2	0.0	0.0	0.0	0.0	0.0	35.5	1.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	5.8	0.0	0.0	5.1	0.0	4.3	27.9
2009	598	2,3,4	0.0	0.0	0.5	0.0	0.0	5.9	6.0	0.0	0.0	0.0	0.0	0.0	42.3	0.7	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	5.7	0.0	0.0	4.2	0.0	11.4	17.9
2010	1244	2,3,4,5	0.2	0.1	0.0	0.0	0.0	8.3	2.2	0.0	0.0	0.3	0.0	0.0	40.4	1.2	0.0	0.0	0.0	0.1	0.6	4.2	0.0	0.0	0.0	1.4	0.0	0.0	5.3	0.0	2.4	33.3
2011	1942	2,3,4,5	0.7	0.2	0.0	0.2	0.2	5.4	3.8	0.0	0.0	1.3	0.0	0.0	20.9	1.4	0.3	0.0	0.0	0.0	0.7	6.2	0.0	0.0	0.0	2.8	0.0	0.0	4.3	0.0	1.8	49.8
2012	3374	2,3,4,5	0.6	0.1	0.1	0.5	0.0	3.5	3.0	0.0	0.0	0.3	0.0	0.1	24.9	2.7	0.4	0.0	0.0	0.0	0.0	9.5	0.0	0.0	0.0	12.0	0.1	0.0	3.6	0.0	1.7	36.8
2013	3610	2,3,4,5	0.3	0.1	0.0	0.0	0.1	2.5	3.6	0.0	0.0	0.2	0.0	0.1	32.5	2.1	0.4	0.0	0.0	0.0	1.0	5.6	0.0	0.0	0.0	2.0	0.0	0.0	5.1	0.0	4.3	40.2
2014	2460	2,3,4,5	1.3	0.0	0.2	0.8	0.0	6.1	5.6	0.0	0.0	0.5	0.0	0.0	42.7	1.5	0.1	0.0	0.0	0.0	0.2	4.2	0.0	0.0	0.0	3.0	0.0	0.0	1.1	0.0	1.3	31.3
2015	1327	2,3,4,5	0.8	0.5	0.0	0.2	0.0	0.5	1.9	0.0	0.0	2.6	0.0	0.0	30.5	1.2	0.0	0.0	0.0	0.0	4.4	7.3	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	5.5	41.0
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	3004		0.2	0.0	0.0	0.2	0.0	5.3	0.5	0.5	1.4	0.0	9.5	4.0	52.0	0.4	0.0	0.0	0.0	0.0	0.8	1.0	0.0	0.0	0.0	1.6	0.1	0.0	1.1	0.0	0.5	20.8
96–98	922		1.7	0.0	0.0	0.0	0.0	1.3	1.2	0.0	0.3	0.4	0.0	0.6	37.6	0.0	0.0	0.0	0.0	0.0	0.6	2.8	0.0	0.0	0.0	4.5	0.3	0.0	1.5	0.0	1.9	45.3
99–08	473		0.5	0.1	0.1	0.5	0.4	9.8	3.0	0.0	0.3	0.3	0.0	0.0	29.8	0.9	0.3	0.0	0.0	0.0	0.6	2.5	0.0	0.0	0.0	5.0	0.6	0.0	7.1	0.0	4.3	33.8
09–15	2079		0.6	0.1	0.1	0.2	0.0	4.6	3.7	0.0	0.0	0.8	0.0	0.0	33.5	1.5	0.2	0.0	0.0	0.0	1.0	6.1	0.0	0.0	0.0	4.4	0.0	0.0	3.4	0.0	4.1	35.8

Appendix C. 8– Percent distribution of Cowlitz Fall Tule (Fall Cowlitz Hatchery) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	26	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	272	2,3	0.7	0.0	0.0	2.9	0.0	29.0	0.0	0.0	2.2	0.0	1.1	0.7	0.0	16.9	6.3	11.0	0.0	0.7	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	9.9	1.8	8.8	6.6
1981	410	2,3,4	5.9	0.0	0.0	2.2	0.0	17.3	0.0	0.0	1.2	0.0	0.0	2.2	6.3	8.8	13.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	0.0	3.2	22.2
1982	487	2,3,4,5	4.3	0.0	0.4	1.4	0.0	16.6	0.0	0.4	2.3	0.0	0.0	1.2	1.0	16.0	11.1	4.3	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	1.6	1.4	29.2
1983	615	2,3,4,5	4.2	0.0	0.0	7.2	0.0	18.9	0.0	3.9	0.5	0.0	0.0	0.5	0.3	7.3	17.6	0.5	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	1.0	3.1	30.2
1984	782	2,3,4,5	5.2	0.0	0.0	7.5	0.0	25.4	0.0	2.3	0.1	0.6	0.0	1.8	0.1	1.7	0.1	3.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	3.3	0.4	33.9
1985	729	2,3,4,5	4.0	0.8	0.0	4.5	0.0	12.9	0.0	0.0	4.5	0.0	0.0	1.1	0.4	3.4	4.8	1.8	0.8	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	5.6	7.8	0.7	45.7
1986	1489	2,3,4,5	0.5	0.1	0.0	0.2	0.0	14.4	0.0	0.7	0.8	0.0	0.0	1.1	0.3	6.7	5.1	7.7	0.5	0.2	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	28.8	6.6	2.4	23.2
1987	1449	2,3,4,5	5.7	0.6	0.0	4.7	0.0	11.5	0.9	1.4	0.0	0.0	0.0	0.7	0.0	4.8	6.6	7.0	0.5	0.0	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	20.7	7.9	0.6	25.7
1988	1538	2,3,4,5	1.8	0.6	0.0	2.1	0.0	18.1	0.0	0.0	0.1	0.0	0.0	0.6	0.0	9.3	1.6	6.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.8	10.1	0.5	25.6
1989	603	2,3,4,5	3.8	0.0	0.7	4.8	0.0	7.3	0.0	0.0	0.3	0.0	0.0	1.0	0.0	8.8	3.2	10.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	6.8	7.0	0.8	45.3
1990	292	2,3,4,5	4.5	0.0	0.0	2.4	0.0	15.8	0.0	3.1	2.7	0.0	0.0	0.7	0.0	7.5	7.5	2.1	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.8	41.8
1991	147	2,3,4,5	10.9	8.2	0.0	4.1	0.0	6.1	3.4	1.4	0.0	0.0	0.0	0.0	0.0	2.7	3.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	4.8	0.0	38.1
1992	201	2,3,4,5	2.0	0.0	0.0	0.0	0.0	20.4	0.0	2.5	0.0	0.0	0.0	0.0	2.0	8.0	5.5	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	3.0	51.7
1993	353	2,3,4,5	3.7	0.0	0.0	3.1	0.0	7.9	0.0	0.0	0.8	0.0	0.0	0.0	0.0	14.4	7.6	4.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.4	2.3	38.0
1994	215	2,3,4,5	5.1	0.0	0.0	1.9	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	81.9
1995	175	2,3,4,5	1.1	0.0	0.0	2.9	0.0	2.9	2.9	0.0	1.1	0.0	0.0	0.0	0.0	2.9	0.0	1.7	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.7	0.0	80.6
1996	275	2,3,4,5	4.7	0.0	0.0	0.4	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.7	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.3	0.0	81.5
1997	169	2,3,4,5	5.9	0.0	10.7	2.4	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.2	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	66.3
1998	78	2,3,4,5	3.8	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.5
1999	147	2,3,4,5	6.8	0.0	4.1	0.0	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	2.7	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	53.1
2000	107	2,3,4,5	3.7	0.0	0.0	0.0	0.0	8.4	14.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	4.7	0.0	46.7
2001	475	2,3,4,5	0.8	0.0	0.0	0.0	0.0	1.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	3.6	9.7	8.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3	0.4	68.0
2002	567	2,3,4,5	7.1	0.0	0.0	1.1	0.0	6.7	3.2	0.0	0.0	0.0	0.0	0.0	0.0	19.2	20.3	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.7	0.4	25.6
2003	543	2,3,4,5	5.3	0.0	0.0	1.3	0.0	9.8	2.2	0.0	0.0	0.0	0.0	0.0	1.3	9.6	6.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	5.0	2.0	38.7
2004	215	2,3,4,5	4.7	0.0	0.0	0.9	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2	9.3	9.8	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	8.8	2.3	6.5	39.5
2005	234	2,3,4,5	2.6	7.7	0.0	2.6	0.0	4.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	4.7	5.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.8	0.9	58.1
2006	140	2,3,4,5	5.7	0.0	0.0	2.9	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	10.7	0.0	63.6
2007	146	2,3,4,5	3.4	2.7	0.0	5.5	0.0	11.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	14.4	2.7	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.5
2008	197	2,3,4,5	0.0	0.0	0.0	0.0	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	6.1	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5	9.6	1.0	66.0
2009	463	2,3,4,5	2.6	0.0	2.2	0.0	1.1	1.5	1.7	0.0	0.0	0.0	0.0	0.0	3.2	6.3	3.9	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.3	6.7	1.1	65.7
2010	630	2,3,4,5	3.3	0.5	0.0	1.1	0.3	3.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.3	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.3	1.3	63.5
2011	1377	2,3,4,5	1.2	0.1	0.1	0.3	0.4	1.2	0.4	0.0	0.0	0.3	0.0	0.0	0.0	1.5	2.4	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.7	0.1	90.5
2012	596	2,3,4,5	0.0	0.0	0.0	1.2	0.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.9	6.2	1.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	6.0	0.0	75.2
2013	736	2,3,4,5	1.6	0.0	0.0	0.0	0.0	0.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2	4.6	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	1.1	82.1
2014	503	2,3,4,5	4.4	0.0	0.4	2.2	0.0	2.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	12.7	1.2	67.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	574		4.9	0.0	0.1	4.6	0.0	19.6	0.0	1.7	1.0	0.2	0.0	1.4	2.0	8.4	10.5	2.9	0.1	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	1.5	2.0	28.9
85–95	654		3.9	0.9	0.1	2.8	0.0	10.8	0.7	0.8	1.0	0.0	0.0	0.5	0.2	6.4	4.1	4.6	0.2	0.2	0.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	9.2	5.6	2.1	45.2
96–98	222		5.3	0.0	5.3	1.4	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2	0.0	73.9
99–08	296		4.0	1.2	0.5	1.6	0.8	6.4	1.8	0.0	0.0	0.0	0.0	0.0	0.1	8.4	7.2	5.0	0.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.3	5.7	1.2	52.0
09–15	718		2.2	0.1	0.4	0.8	0.3	1.9	1.1	0.0	0.0	0.0	0.0	0.0	0.7	4.8	4.9	0.9	0.4	0.1	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.9	0.8	74.0

Appendix C. 9– Percent distribution of Dome Creek Spring (Fraser Early) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							SBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			Stray	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	41	3,4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.0	0.0	12.2	0.0	0.0	0.0	0.0	7.3	68.3
1991	154	3,4,5	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.0	10.4	1.3	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	0.0	3.9	3.2	0.0	0.0	0.0	2.6	63.6
1992	160	3,4,5,6	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	3.1	0.0	8.8	1.3	0.0	0.0	0.6	0.0	0.0	5.6	0.0	0.0	0.0	45.0	0.0	0.0	0.0	0.0	0.0	31.3
1993	351	3,4,5,6	0.0	0.0	0.0	0.0	1.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	6.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.6	5.7	0.0	0.0	0.0	0.0	33.9
1994	297	3,4,5,6	0.7	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	2.4	0.0	0.0	0.0	0.0	67.3
1995	525	3,4,5,6	0.0	0.0	0.0	1.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.4	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	20.6	3.0	0.0	0.0	0.0	0.0	66.3
1996	360	3,4,5,6	0.0	0.0	0.0	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	36.7	4.4	0.0	0.0	0.0	0.0	48.9
1997	318	3,4,5,6	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	6.9	1.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	38.4	0.0	0.0	0.0	0.0	0.0	51.3
1998	230	3,4,5,6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.4	7.4	0.0	0.0	0.0	0.0	44.3
1999	56	3,4,5,6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1	10.7	0.0	0.0	0.0	0.0	41.1
2000	100	3,4,5,6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	39.0
2001	307	3,4,5,6	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.3	2.9	0.0	0.0	0.0	0.0	21.2
2002	136	4,5,6	0.0	0.0	0.0	13.2	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1	0.0	0.0	0.0	0.0	0.0	41.2
2003	152	3,5,6	0.0	0.0	0.0	5.3	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.9	0.0	0.0	0.0	0.0	0.0	15.1
2004	22	3,4,6	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.8	4.5	0.0	0.0	0.0	0.0	9.1
2005	224	3,4,5	0.0	0.0	0.0	4.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	58.5	7.1	0.0	0.0	0.0	0.0	25.0
2006	61	4,5,6	0.0	0.0	0.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.0
2007	20	5,6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	30.0
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	297		0.1	0.0	0.0	0.2	0.3	2.1	0.0	0.0	0.0	0.0	0.8	0.0	6.4	0.9	0.0	0.0	0.1	0.0	0.0	4.2	0.0	0.0	0.0	29.1	2.9	0.0	0.0	0.0	0.5	52.5
96–98	303		0.0	0.0	0.0	0.2	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	7.2	0.4	0.0	0.0	0.0	0.0	0.4	0.7	0.0	0.0	0.0	38.5	3.9	0.0	0.0	0.0	0.0	48.2
99–08	205		0.0	0.0	0.0	5.6	0.0	3.4	1.8	0.0	0.0	0.0	0.0	0.0	10.9	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	48.9	2.5	0.0	0.0	0.0	0.0	25.6
09–15	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix C. 10– Percent distribution of Elk River (Oregon Coast) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	23	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	147	2,3	0.7	0.0	0.0	6.1	0.0	6.8	0.0	2.0	1.4	0.0	4.8	1.4	0.0	4.8	2.7	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	47.6
1981	442	2,3,4	4.5	0.0	0.2	6.1	0.0	6.8	0.0	1.1	2.0	0.0	0.0	0.0	0.0	2.5	0.9	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	37.6	0.0	22.4
1982	2055	2,3,4,5	1.3	0.3	0.2	2.1	0.0	5.6	0.0	0.3	0.4	0.0	0.0	0.1	0.0	1.3	0.6	15.6	0.3	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	39.9	0.0	28.3
1983	2890	2,3,4,5	3.3	0.1	0.0	5.8	0.0	7.0	0.0	1.2	0.0	0.0	0.0	0.0	0.1	2.3	0.1	3.7	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	28.1	0.0	42.3
1984	2326	2,3,4,5	2.9	0.0	0.0	4.1	0.1	5.2	0.0	0.5	0.1	0.0	0.0	0.0	0.0	0.4	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	20.4	0.0	58.4
1985	1955	2,3,4,5	1.7	0.0	0.0	2.0	0.0	1.1	0.0	0.0	0.1	0.0	0.0	0.1	0.0	0.2	0.2	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	32.5	0.8	55.7
1986	925	2,3,4,5	1.6	0.0	0.0	2.7	0.0	10.9	0.3	1.8	0.0	0.0	0.0	0.0	0.3	0.5	0.2	21.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.0	15.0	0.1	35.6
1987	2023	2,3,4,5	0.8	0.0	0.0	3.5	0.0	5.7	0.0	0.7	0.0	0.0	0.0	0.0	0.4	1.1	0.1	15.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	25.0	0.0	40.4
1988	2093	2,3,4,5	0.4	0.0	0.0	2.7	0.0	3.7	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.5	0.0	15.7	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	35.9	0.0	39.9
1989	1339	2,3,4,5	0.7	0.0	0.3	1.3	0.4	1.9	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	14.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.6	0.0	32.2	0.4	35.5
1990	542	2,3,4,5	0.9	0.0	0.0	0.0	0.0	2.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	3.7	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	38.4	0.4	41.5
1991	457	2,3,4,5	0.0	0.7	0.0	2.2	0.0	5.3	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.4	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.2	58.2
1992	631	2,3,4,5	2.9	3.2	0.0	0.0	0.0	6.8	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	35.5	0.2	39.9
1993	892	2,3,4,5	2.6	0.0	0.0	2.2	0.0	5.5	0.8	0.0	0.0	0.0	0.0	0.0	0.3	1.7	0.2	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	21.2	0.2	46.6
1994	1626	2,3,4,5	3.2	0.6	0.0	1.6	0.4	2.5	0.0	0.1	0.2	0.0	0.0	0.2	0.0	0.4	0.0	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	34.3	0.2	38.9
1995	3321	2,3,4,5	2.1	0.2	0.5	1.1	0.2	1.9	0.2	0.0	0.5	0.0	0.0	0.1	0.0	0.2	0.0	5.5	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	0.0	32.2	0.0	47.1
1996	5018	2,3,4,5	2.0	0.0	0.0	1.3	0.1	0.4	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.1	0.0	13.1	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	16.0	0.0	11.7	0.3	54.5
1997	4060	2,3,4,5	14.0	0.0	0.1	1.8	0.2	1.3	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.6	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	18.4	0.2	44.1
1998	6031	2,3,4,5	7.9	0.0	0.0	3.2	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	4.9	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	9.6	0.0	66.0
1999	5058	2,3,4,5	8.6	0.0	0.4	2.8	0.3	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.8	0.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	0.0	13.5	0.1	49.1
2000	4311	2,3,4,5	8.2	0.1	0.1	1.7	0.6	0.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.5	7.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.0	18.5	0.0	41.9
2001	9387	2,3,4,5	5.4	0.0	0.4	2.5	0.0	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.9	8.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	13.9	0.1	56.4
2002	6717	2,3,4,5	9.2	0.0	1.0	6.5	1.0	1.3	0.3	0.0	0.0	0.1	0.0	0.0	0.0	3.3	1.1	5.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	10.4	0.0	49.5
2003	4286	2,3,4,5	8.7	0.0	0.4	5.2	0.3	1.5	0.0	0.0	0.0	0.3	0.0	0.0	0.0	3.9	0.1	7.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	17.8	0.0	37.8
2004	5786	2,3,4,5	8.0	0.0	0.4	3.9	0.7	3.6	0.1	0.0	0.0	0.0	0.0	0.0	0.1	2.3	0.1	3.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.0	7.2	0.2	51.2
2005	2268	2,3,4,5	12.6	0.0	0.3	6.8	2.2	5.3	0.9	0.0	0.0	0.3	0.0	0.0	0.4	2.9	0.4	2.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	10.9	0.0	38.2
2006	2414	2,3,4,5	7.5	0.0	0.0	5.6	1.4	5.7	1.9	0.0	0.0	0.7	0.0	0.0	0.0	4.4	0.3	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	0.0	12.2	0.0	39.4
2007	2207	2,3,4,5	9.7	0.1	0.6	4.8	1.0	1.4	0.4	0.0	0.0	0.0	0.0	0.0	0.2	4.0	0.8	5.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0	18.2	0.1	34.3
2008	4080	2,3,4,5	4.6	0.0	0.0	3.8	1.8	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	19.7	0.0	62.9
2009	3267	2,3,4,5	6.7	0.0	0.1	4.4	0.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	15.9	0.0	67.2
2010	4237	2,3,4,5	5.3	0.0	0.4	4.2	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.6	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	10.5	0.0	68.5
2011	1864	2,3,4,5	7.1	0.0	0.5	4.6	0.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.1	5.4	0.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	19.0	0.1	40.2
2012	2800	2,3,4,5	2.2	0.3	0.0	2.3	0.1	3.1	2.7	0.0	0.0	0.1	0.0	0.0	0.6	6.5	0.7	3.8	0.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0	15.8	0.0	48.5
2013	6616	2,3,4,5	2.7	0.0	0.2	3.8	0.4	0.7	1.0	0.0	0.0	0.4	0.0	0.0	0.1	8.2	0.4	4.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	11.7	0.0	51.2
2014	4950	2,3,4,5	7.5	0.0	0.2	5.4	0.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.6	0.2	5.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.8	0.0	11.8	0.0	52.0
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	1928		3.0	0.1	0.1	4.5	0.0	6.2	0.0	0.8	0.7	0.0	0.0	0.0	0.0	1.6	0.4	8.4	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	4.4	0.0	31.5	0.0	37.9
85–95	1437		1.5	0.4	0.1	1.8	0.1	4.4	0.2	0.3	0.1	0.0	0.0	0.0	0.1	0.8	0.1	9.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	30.0	0.2	43.6
96–98	5036		8.0	0.0	0.0	2.1	0.1	0.5	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.3	0.0	8.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	13.3	0.2	54.9
99–08	4651		8.2	0.0	0.4	4.4	0.9	2.2	0.5	0.0	0.0	0.1	0.0	0.0	0.1	2.8	0.4	4.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	14.8	0.1	46.1
09–15	3956		5.2	0.0	0.2	4.1	0.4	1.7	1.0	0.0	0.0	0.1	0.0	0.0	0.2	4.7	0.4	2.7	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	10.1	0.0	14.1	0.0	54.6

Appendix C. 11– Percent distribution of Elwha River total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	70	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	262	2,3	12.2	4.6	0.0	6.1	0.0	16.0	0.0	0.4	11.5	0.0	0.0	3.4	7.3	1.1	0.8	0.0	0.0	0.8	7.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	13.0
1986	717	2,3,4	24.1	2.9	0.0	2.6	0.0	17.7	1.1	1.1	4.6	0.0	0.8	1.3	6.8	1.1	0.0	0.0	0.0	3.2	0.0	14.9	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	10.3
1987	473	2,3,4,5	16.3	0.0	0.0	5.1	0.0	15.9	1.5	2.5	4.7	0.0	0.8	0.6	11.0	2.5	0.0	0.4	0.0	1.9	0.6	19.9	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.2	13.3
1988	462	2,3,4,5	5.2	0.9	0.6	3.9	0.0	15.4	6.5	1.5	0.9	0.0	0.4	0.4	2.4	4.5	0.0	0.0	0.0	1.1	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	40.9
1989	300	3,4,5	6.3	5.7	0.0	4.3	2.0	6.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	2.7	0.3	0.0	0.0	6.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	47.0
1990	40	2,4,5	0.0	0.0	0.0	12.5	0.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	55.0
1991	22	2,3,5	0.0	0.0	0.0	0.0	0.0	18.2	0.0	0.0	4.5	0.0	0.0	0.0	4.5	9.1	0.0	0.0	0.0	0.0	45.5	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1992	75	2,3,4	0.0	0.0	0.0	1.3	0.0	34.7	0.0	0.0	5.3	0.0	1.3	2.7	9.3	12.0	0.0	0.0	0.0	0.0	0.0	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
1993	153	2,3,4,5	6.5	0.0	0.0	0.0	0.0	15.7	0.0	0.0	0.0	0.0	2.6	0.0	21.6	2.6	0.0	0.0	0.0	0.0	0.0	28.8	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6
1994	86	2,3,4,5	8.1	0.0	0.0	9.3	0.0	18.6	0.0	0.0	2.3	0.0	4.7	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.8
1995	152	2,3,4,5	0.0	0.0	0.0	0.0	2.6	32.2	2.6	3.9	6.6	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	36.2
1996	316	2,3,4,5	4.1	0.0	0.0	1.6	0.0	1.6	3.2	0.0	2.8	0.0	0.0	0.0	3.8	0.6	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	74.4
1997	193	3,4,5	14.5	0.0	0.5	1.0	0.0	4.1	0.0	0.0	4.1	0.0	0.0	0.0	6.7	1.0	0.0	0.0	0.0	0.0	0.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	53.4
1998	173	4,5	13.9	0.0	2.9	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.5
1999	27	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	376		9.7	1.6	0.1	2.7	0.8	17.1	2.0	2.0	2.8	0.0	0.8	0.4	7.0	2.5	0.1	0.1	0.0	2.0	0.1	16.7	0.8	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	27.6
96–98	254		9.3	0.0	0.3	1.3	0.0	2.9	1.6	0.0	3.5	0.0	0.0	0.0	5.3	0.8	0.0	0.0	0.0	0.0	0.0	10.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	63.9
99–08	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09–15	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix C. 12– Percent distribution of George Adams Fall Fingerling total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	70	4,5	0.0	0.0	0.0	0.0	0.0	35.7	0.0	0.0	0.0	0.0	2.9	0.0	0.0	12.9	0.0	0.0	0.0	0.0	31.4	11.4	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	2.9
1980	389	2,5	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.5	0.5	0.0	0.0	2.3	5.9	0.8	0.0	0.0	0.5	0.0	12.6	56.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	13.6
1981	689	2,3	0.0	0.0	0.0	0.6	0.0	11.0	0.0	1.6	0.0	0.0	1.0	5.8	7.0	1.7	0.7	0.6	0.0	0.4	22.5	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	13.1
1982	847	2,3,4	0.0	0.0	0.0	0.0	0.0	20.9	0.0	0.6	0.2	0.0	0.2	0.5	4.1	3.0	0.5	0.0	0.0	6.4	20.2	13.7	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.4	20.2
1983	841	2,3,4,5	0.0	0.0	0.0	0.0	0.0	13.1	0.0	1.4	1.2	0.0	0.0	3.2	3.0	0.1	0.6	0.0	0.0	1.1	12.2	45.5	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.4	11.4
1984	1045	3,4,5	0.0	0.1	0.0	0.6	0.0	18.4	0.0	3.3	0.7	0.0	1.2	1.1	4.9	2.2	0.4	0.2	0.0	1.2	10.0	22.9	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	0.1	14.8
1985	361	4,5	1.4	0.0	0.0	0.0	0.0	18.8	0.0	0.3	0.0	0.0	0.0	0.0	4.7	1.1	0.0	0.0	0.0	0.8	24.4	22.2	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	19.1
1986	18	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	208	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	896	2,3	0.0	0.4	0.0	1.0	0.0	10.9	0.0	0.0	0.0	0.0	0.0	2.2	8.6	11.5	0.4	0.4	0.0	0.0	12.5	27.9	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.1	12.6
1989	1889	2,3,4	0.0	0.6	0.0	0.0	0.0	10.6	1.7	0.1	0.3	0.0	0.0	4.2	4.0	13.2	0.5	0.3	0.3	0.2	15.0	18.4	0.0	0.0	0.0	0.0	0.0	0.0	18.6	1.3	0.1	10.6
1990	1515	2,3,4,5	0.7	0.0	0.0	0.4	0.0	21.5	4.8	0.3	0.5	0.0	0.0	1.0	4.9	15.6	0.4	0.0	0.0	0.3	8.5	18.5	0.0	0.0	0.0	0.0	0.0	0.0	16.2	0.3	0.0	6.0
1991	1035	2,3,4,5	0.2	0.0	0.0	0.0	0.0	19.5	3.9	0.0	0.0	0.0	0.0	0.3	2.8	8.3	0.0	0.4	0.0	0.0	17.7	18.7	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.8	0.1	13.4
1992	185	2,3,4,5	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	0.5	0.0	0.0	5.4	1.6	20.0	0.0	0.0	0.0	0.0	0.5	38.4	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.0	7.6
1993	125	2,3,4,5	0.0	0.0	0.0	0.0	0.0	31.2	8.8	0.0	0.0	0.0	1.6	0.0	4.0	8.8	0.0	0.0	0.0	0.0	4.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	16.0
1994	48	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	12.5	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	64.6
1995	261	2,3,4,5	0.0	0.0	0.0	0.0	0.0	9.6	3.1	0.0	2.3	0.0	0.0	1.1	5.0	0.8	0.0	0.0	0.0	0.0	0.4	28.7	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	1.1	44.8
1996	366	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.4	4.6	0.0	2.5	0.0	0.0	0.0	13.4	5.5	0.5	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	56.0
1997	400	2,3,4,5	2.0	0.0	0.0	0.0	0.0	4.8	1.3	0.0	0.0	0.0	0.0	0.5	4.0	2.3	0.0	0.5	0.0	0.0	0.8	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	59.8
1998	581	2,3,4,5	0.7	0.2	0.0	0.0	0.0	0.2	1.2	0.0	0.0	0.0	0.0	0.0	0.7	1.5	0.0	0.0	0.0	0.0	0.2	27.7	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.3	66.1
1999	891	2,3,4,5	0.4	0.0	0.0	0.0	0.0	0.8	7.3	0.0	0.0	0.0	0.0	0.0	5.1	4.2	1.3	1.3	0.0	0.0	1.7	12.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1	63.9
2000	936	2,3,4,5	0.3	0.0	0.0	0.3	0.0	20.8	9.0	0.0	0.2	0.0	0.0	0.0	2.9	3.1	0.0	0.4	0.0	0.0	0.3	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6	0.3	40.0
2001	889	2,3,4,5	0.8	0.0	0.0	0.0	0.0	12.5	2.1	0.0	0.0	0.0	0.0	0.0	2.4	5.1	1.0	1.8	0.0	0.0	4.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.4	0.6	47.8
2002	1025	2,3,4,5	1.6	0.0	0.0	1.2	0.0	10.4	11.2	0.0	0.0	0.0	0.0	0.0	1.9	4.0	0.8	0.5	0.2	0.0	6.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	3.6	9.1	0.5	41.0
2003	1022	2,3,4,5	0.6	0.4	0.0	0.0	0.0	11.4	2.3	0.0	0.0	0.0	0.0	0.0	2.9	6.2	0.2	0.9	0.0	0.0	3.7	9.3	0.0	0.0	0.0	0.0	0.0	0.0	6.1	11.4	0.1	44.4
2004	1433	2,3,4,5	0.4	0.3	0.0	0.0	0.0	15.0	3.4	0.0	0.6	0.0	0.1	0.0	2.4	5.9	0.5	0.9	0.0	0.0	6.7	9.1	0.0	0.0	0.0	0.0	0.0	0.0	4.2	1.2	0.3	48.9
2005	1723	2,3,4,5	0.3	0.1	0.0	0.1	0.0	11.5	7.8	0.0	0.0	0.0	0.0	0.0	9.2	7.0	1.3	0.5	0.0	0.0	2.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	2.6	5.9	0.5	40.9
2006	1171	2,3,4,5	0.4	0.3	0.0	0.9	0.0	12.0	2.0	0.0	0.0	0.0	0.0	0.0	4.7	5.5	0.4	0.3	0.0	0.0	6.7	11.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	1.4	0.3	47.4
2007	1898	2,3,4,5	0.3	0.8	0.0	0.0	0.0	9.7	1.7	0.0	0.0	0.0	0.0	0.0	3.1	3.5	0.2	0.3	0.0	0.0	2.2	19.8	0.0	0.0	0.0	0.0	0.0	0.0	8.6	10.7	0.1	39.1
2008	1217	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.2	4.1	0.0	0.0	0.0	0.0	0.0	3.5	1.6	0.7	0.0	0.0	0.4	4.8	13.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	57.7
2009	1584	2,3,4,5	0.0	0.0	0.0	0.2	0.0	5.6	4.8	0.0	0.0	0.0	0.0	0.0	7.6	2.5	0.4	0.0	0.0	0.0	3.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	55.7
2010	1940	2,3,4,5	0.2	0.0	0.0	0.0	0.0	9.5	5.5	0.0	0.0	0.0	0.0	0.0	1.8	4.7	0.4	0.2	0.0	0.2	5.1	12.3	0.0	0.0	0.0	0.0	0.0	0.0	12.7	5.5	0.1	41.9
2011	2756	2,3,4,5	0.0	0.0	0.0	0.0	0.0	3.0	2.4	0.0	0.0	0.0	0.0	0.0	1.7	2.1	0.3	0.3	0.0	0.0	4.9	16.1	0.0	0.0	0.0	0.0	0.0	0.0	9.8	6.6	0.0	52.7
2012	3139	2,3,4,5	0.2	0.1	0.0	0.1	0.0	2.5	3.3	0.0	0.0	0.0	0.0	0.3	2.6	5.4	1.4	0.2	0.0	0.0	7.6	15.3	0.0	0.0	0.0	0.0	0.0	0.0	14.5	6.9	0.3	39.2
2013	1936	2,3,4,5	0.0	0.5	0.0	0.2	0.0	3.4	4.4	0.0	0.0	0.0	0.0	0.0	4.3	5.2	1.0	0.3	0.0	0.0	3.2	7.7	0.0	0.0	0.0	0.0	0.0	0.0	6.5	8.4	0.2	54.9
2014	1060	2,3,4,5	0.3	0.4	0.0	1.6	0.0	4.1	5.8	0.0	0.0	0.2	0.0	0.0	4.8	1.8	1.4	0.0	0.0	0.0	12.7	18.4	0.0	0.0	0.0	0.0	0.0	0.0	23.3	1.3	0.0	23.9
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	911		0.0	0.0	0.0	0.2	0.0	17.5	0.0	1.8	0.7	0.0	0.5	1.6	4.0	1.8	0.5	0.1	0.0	2.9	14.2	27.4	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.3	15.5
85–95	977		0.2	0.1	0.0	0.1	0.0	15.6	2.7	0.1	0.7	0.0	0.0	2.4	3.7	11.6	0.2	0.1	0.1	0.1	8.4	24.6	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.5	0.3	16.5
96–98	449		0.9	0.1	0.0	0.0	0.0	2.1	2.4	0.0	0.8	0.0	0.0	0.2	6.0	3.1	0.2	0.2	0.0	0.0	0.3	22.4	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.3	60.6
99–08	1220		0.5	0.2	0.0	0.2	0.0	10.8	5.1	0.0	0.1	0.0	0.0	0.0	3.8	4.6	0.6	0.7	0.0	0.0	4.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7	5.1	0.3	47.1
09–15	2069		0.1	0.2	0.0	0.3	0.0	4.7	4.4	0.0	0.0	0.0	0.0	0.1	3.8	3.6	0.8	0.1	0.0	0.0	6.1	14.6	0.0	0.0	0.0	0.0	0.0	0.0	11.6	4.8	0.1	44.7

Appendix C. 13– Percent distribution of Hanford Wild Brights total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	95	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	113	2,3	9.7	0.0	0.0	10.6	0.0	8.8	5.3	2.7	1.8	0.0	0.0	1.8	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4	12.4	0.0	18.6
1990	476	2,3,4	8.8	0.8	0.2	5.0	0.0	8.8	3.6	0.4	0.4	0.0	0.0	0.2	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	5.9	0.0	43.5
1991	614	2,3,4,5	10.7	0.0	1.5	10.6	0.5	5.2	0.0	0.2	0.0	0.0	0.0	0.0	1.0	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	3.7	0.0	42.7
1992	364	2,3,4,5	15.9	15.4	1.4	6.0	0.0	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	1.4	0.0	28.0
1993	413	2,3,4,5	18.9	0.0	2.2	3.1	1.2	6.1	1.9	0.0	0.5	0.0	0.0	1.7	0.0	3.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	14.8	6.8	1.2	37.0
1994	768	2,3,4,5	17.1	3.1	0.0	5.5	0.0	4.7	0.0	0.3	1.0	0.0	0.0	0.3	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	12.0	0.0	50.1
1995	688	2,3,4,5	13.4	0.0	4.2	5.5	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	6.8	0.0	57.8
1996	623	2,3,4,5	13.2	0.0	0.0	0.8	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	27.0	7.5	0.0	50.1
1997	647	2,3,4,5	16.8	1.1	1.1	3.1	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	7.1	0.0	52.4
1998	332	2,3,4,5	13.9	0.0	0.0	11.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	6.3	0.0	50.6
1999	276	2,3,4,5	13.4	0.4	2.2	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	5.8	0.0	54.0
2000	230	2,3,4,5	20.9	0.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8	5.2	0.0	43.5
2001	352	2,3,4,5	6.0	0.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	14.5	0.0	56.3
2002	888	2,3,4,5	17.9	0.0	1.5	0.8	0.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.5	10.6	1.9	52.8
2003	1544	2,3,4,5	13.7	0.0	0.9	4.1	1.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8	9.2	0.0	56.0
2004	1898	2,3,4,5	18.7	2.1	3.0	6.5	3.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.3	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	4.0	0.0	45.5
2005	461	2,3,4,5	13.2	0.0	0.0	8.9	3.0	4.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.9	15.2	0.0	39.0
2006	563	2,3,4,5	19.2	0.0	0.9	5.2	0.0	2.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	19.4	0.0	35.2
2007	308	2,3,4,5	23.1	0.0	1.0	7.1	7.5	2.6	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	16.2	0.0	33.4
2008	221	2,3,4,5	33.5	0.0	5.4	1.4	1.8	3.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	7.2	0.9	27.1
2009	228	2,3,4,5	21.9	0.0	0.9	3.9	2.2	1.3	2.6	0.0	0.0	0.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.2	4.4	0.0	11.4
2010	504	2,3,4,5	16.3	0.0	4.6	8.3	3.8	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9	4.6	4.4	42.7
2011	552	2,3,4,5	20.8	0.7	0.0	1.8	5.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.2	0.7	0.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8	8.0	0.0	36.8
2012	657	2,3,4,5	16.3	0.9	1.7	5.3	2.4	5.8	5.5	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.3	0.5	0.8	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	16.0	17.0	0.0	22.2
2013	1661	2,3,4,5	7.4	0.0	0.8	4.6	1.4	1.5	2.0	0.0	0.0	0.3	0.0	0.0	0.8	1.3	0.5	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	11.3	0.1	43.0
2014	2222	2,3,4,5	14.1	0.4	1.2	4.8	0.8	2.6	1.4	0.0	0.0	0.7	0.0	0.0	0.6	1.4	0.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	10.2	0.0	42.8
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	554		14.1	3.2	1.6	6.0	0.3	7.2	0.9	0.1	0.3	0.0	0.0	0.4	0.2	0.9	0.3	0.2	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	14.5	6.1	0.2	43.2
96–98	534		14.6	0.4	0.4	5.1	1.2	0.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	19.2	7.0	0.0	51.0
99–08	674		17.9	0.3	1.8	4.7	1.7	1.8	0.5	0.0	0.1	0.0	0.0	0.0	0.0	0.5	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	10.7	0.3	44.3
09–15	971		16.1	0.3	1.5	4.8	2.6	2.4	2.1	0.0	0.0	0.2	0.0	0.0	0.9	1.5	0.3	0.9	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	22.6	9.2	0.7	33.1

Appendix C. 14– Percent distribution of Harrison River (Fraser Late) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	822	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	2391	2,3	0.1	0.0	0.0	1.0	0.0	29.8	0.0	4.0	0.3	0.0	15.3	5.8	27.3	1.8	0.1	0.3	0.0	0.4	1.5	4.4	0.0	0.0	0.0	0.0	0.3	0.0	0.3	0.0	0.0	7.2
1985	1614	2,3,4	0.2	0.0	0.0	1.1	0.0	24.8	0.4	1.9	1.4	0.0	8.4	3.4	26.5	1.0	0.2	0.2	0.0	0.7	2.5	3.5	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	23.1
1986	923	2,3,4,5	1.6	0.0	0.0	0.4	0.0	18.3	0.4	2.8	1.5	0.3	19.5	9.5	24.3	0.0	0.0	0.0	0.0	0.5	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	15.9
1987	528	2,3,4,5	0.9	0.0	0.0	0.0	0.0	10.4	0.0	0.6	1.7	0.0	9.8	4.7	28.6	3.6	0.4	0.0	0.0	0.4	5.9	2.5	0.0	0.0	0.0	0.0	0.9	0.0	1.3	0.0	0.0	28.2
1988	1325	2,3,4,5	0.5	0.0	0.8	0.0	0.0	4.3	2.6	1.3	2.0	0.0	12.3	6.8	39.5	4.2	0.0	0.9	0.0	0.0	8.2	6.6	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	9.6
1989	2361	2,3,4,5	0.2	0.0	0.0	0.3	0.0	25.1	1.0	0.7	0.3	0.0	5.5	5.7	23.8	5.7	0.2	0.8	0.0	0.0	4.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	21.5
1990	2860	2,3,4,5	0.5	0.0	0.0	0.8	0.0	20.3	1.3	0.7	0.5	0.0	4.5	1.0	11.9	6.1	0.1	0.0	0.0	0.0	2.6	6.0	0.0	0.0	0.0	1.3	0.3	0.0	0.1	0.0	0.0	41.8
1991	1579	2,3,4,5	0.0	0.1	0.0	0.0	0.0	29.8	0.0	0.3	1.3	0.0	9.0	3.0	13.6	11.2	0.0	0.9	0.0	0.0	2.2	4.9	0.0	0.0	0.0	1.3	0.4	0.0	0.0	0.0	0.0	22.1
1992	1670	2,3,4,5	0.0	0.0	0.0	0.4	0.0	18.7	0.0	0.1	0.1	0.0	13.4	1.2	12.5	11.4	0.0	0.2	0.0	0.0	1.0	7.2	0.0	0.0	0.0	0.7	0.2	0.0	0.0	0.0	0.0	32.8
1993	1139	2,3,4,5	1.0	0.0	0.0	0.3	0.0	19.1	0.0	0.4	0.2	0.0	6.6	0.8	7.3	9.1	0.0	1.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	2.0	0.0	0.0	0.6	0.0	0.0	49.5
1994	446	2,3,4,5	0.0	0.0	0.0	0.0	0.0	19.1	2.0	0.0	0.4	0.0	9.0	2.9	6.5	2.2	0.0	0.9	0.0	0.0	2.7	2.2	0.0	0.0	0.0	1.8	0.9	0.0	0.0	0.0	0.0	49.3
1995	347	2,3,4,5	0.0	0.0	0.0	0.0	0.0	22.2	0.0	0.0	2.3	0.0	0.0	0.9	21.6	8.1	0.6	1.4	0.0	0.0	3.7	4.6	0.0	0.0	0.0	2.6	0.9	0.0	0.0	0.0	5.8	25.4
1996	1103	2,3,4,5	0.0	0.1	0.0	0.0	0.0	1.6	0.2	0.0	0.5	0.0	0.0	0.1	23.0	3.7	0.0	0.8	0.0	0.0	0.0	7.9	0.0	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.1	61.3
1997	851	2,3,4,5	1.5	0.0	0.0	0.0	0.0	13.2	3.4	0.0	0.7	0.0	0.1	0.7	19.2	6.8	0.0	3.1	0.0	0.0	2.7	6.5	0.0	0.0	0.0	2.2	0.0	0.0	0.4	0.0	0.0	39.6
1998	1176	2,3,4,5	0.9	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.4	4.0	0.0	1.1	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.9	88.4
1999	1249	2,3,4,5	0.2	0.4	0.0	0.5	0.0	0.6	1.3	0.2	0.0	0.0	0.0	0.0	10.2	13.5	0.4	0.7	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.6	0.2	0.0	0.7	0.0	0.9	68.5
2000	584	2,3,4,5	1.7	0.0	0.0	0.5	0.0	13.7	4.3	0.0	0.0	0.0	0.0	0.0	11.6	13.0	0.0	2.1	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	51.5
2001	941	2,3,4,5	0.3	0.0	0.0	0.0	0.0	6.1	2.1	0.0	0.0	0.0	0.0	0.0	6.5	5.4	1.6	1.4	0.0	1.0	0.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	72.2
2002	500	2,3,4,5	0.4	0.0	0.0	0.0	0.0	8.8	2.2	0.0	0.0	0.0	0.0	5.4	7.8	10.6	1.2	0.4	0.0	0.0	0.6	2.2	0.0	0.0	0.0	0.8	0.0	0.0	1.6	0.0	0.2	57.8
2003	416	2,3,4,5	1.7	0.0	0.0	0.0	0.0	10.8	3.8	0.0	0.0	0.0	0.0	0.0	6.7	9.4	1.4	0.0	0.0	0.0	0.2	1.7	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.5	61.8
2004	570	2,3,4,5	1.2	0.0	0.0	0.9	0.0	17.7	6.5	0.0	0.0	0.0	0.0	0.0	0.7	16.0	0.5	0.0	0.0	0.0	0.2	3.3	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	50.5
2005	726	2,3,4,5	0.0	0.0	0.0	0.3	0.0	14.3	4.1	0.0	0.0	0.0	0.0	0.0	6.9	6.2	2.6	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	5.1	0.0	0.0	0.4	0.0	1.2	58.0
2006	410	3,4,5	1.0	0.0	0.0	0.7	0.0	20.5	5.9	0.0	0.0	0.0	0.0	0.0	2.9	13.7	1.0	1.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.7
2007	975	2,4,5	0.0	0.0	0.0	0.0	0.0	9.4	1.0	0.0	0.0	0.0	0.0	0.0	3.2	1.1	0.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.0
2008	795	2,3,5	0.4	0.3	0.0	0.0	0.0	27.5	10.4	0.0	0.0	0.0	0.0	0.1	7.9	5.3	1.3	0.0	0.0	0.0	1.6	1.6	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.0	0.0	42.6
2009	2190	2,3,4	0.0	0.0	0.0	0.2	0.0	1.5	3.7	0.0	0.0	0.0	0.0	0.0	4.4	1.2	0.2	0.0	0.0	0.0	0.1	1.8	0.0	0.0	0.0	1.5	1.0	0.0	0.0	0.0	0.0	84.3
2010	2010	2,3,4,5	0.6	0.0	0.0	0.2	0.0	3.9	3.7	0.0	0.0	0.2	0.0	0.0	5.5	4.0	1.1	0.0	0.0	0.0	0.4	2.0	0.0	0.0	0.0	1.0	0.3	0.0	0.1	0.0	0.0	76.6
2011	2724	2,3,4,5	0.3	0.0	0.0	0.1	0.4	3.3	5.3	0.0	0.0	0.1	0.0	0.8	5.1	3.1	0.6	0.0	0.0	0.0	0.4	2.1	0.0	0.0	0.0	1.4	0.0	0.0	0.1	0.0	0.0	76.8
2012	2090	2,3,4,5	0.2	0.0	0.0	0.0	0.0	1.3	0.7	0.0	0.0	0.0	0.0	0.1	9.6	3.4	0.5	0.2	0.0	0.0	0.1	5.0	0.0	0.0	0.0	0.3	0.9	0.0	0.1	0.0	0.0	77.4
2013	3460	2,3,4,5	0.0	0.1	0.1	0.0	0.1	2.0	2.3	0.0	0.0	0.1	0.0	1.0	7.1	5.1	0.9	0.3	0.0	0.0	0.3	3.8	0.0	0.0	0.0	0.0	0.5	0.0	0.4	0.0	1.3	74.7
2014	2234	2,3,4,5	0.4	0.0	0.1	0.0	0.0	3.8	0.9	0.0	0.0	0.0	0.0	2.0	12.6	4.9	0.7	0.8	0.0	0.0	0.5	2.4	0.0	0.0	0.0	3.5	0.0	0.0	0.1	0.0	0.0	67.2
2015	1826	2,3,4,5	0.1	0.1	0.0	0.4	0.0	0.9	1.0	0.0	0.0	0.0	0.0	1.2	10.7	3.5	0.0	0.0	0.0	0.0	0.3	1.4	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	78.2
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	1345		0.5	0.0	0.1	0.3	0.0	19.3	0.7	0.8	1.1	0.0	8.9	3.6	19.6	5.7	0.1	0.6	0.0	0.2	3.0	4.4	0.0	0.0	0.0	0.9	0.4	0.0	0.3	0.0	0.5	29.0
96–98	1043		0.8	0.0	0.0	0.0	0.0	5.1	1.2	0.0	0.4	0.0	0.0	0.3	15.2	4.8	0.0	1.7	0.0	0.0	1.0	4.9	0.0	0.0	0.0	1.0	0.1	0.0	0.1	0.0	0.3	63.1
99–08	717		0.7	0.1	0.0	0.3	0.0	13.0	4.2	0.0	0.0	0.0	0.0	0.6	6.5	9.4	1.0	0.6	0.0	0.1	0.3	1.5	0.0	0.0	0.0	1.1	0.0	0.0	0.4	0.0	0.3	60.0
09–15	2362		0.2	0.0	0.0	0.1	0.1	2.4	2.5	0.0	0.0	0.1	0.0	0.7	7.9	3.6	0.6	0.2	0.0	0.0	0.3	2.6	0.0	0.0	0.0	1.4	0.4	0.0	0.1	0.0	0.2	76.5

Appendix C. 15– Percent distribution of Hoko Fall Fingerling total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	11	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	141	2,3	7.8	4.3	0.0	11.3	0.0	19.1	0.0	2.8	2.8	0.0	0.0	5.0	2.1	0.0	0.0	0.0	0.0	0.0	3.5	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1
1989	352	2,3,4	11.1	3.4	0.3	8.5	0.0	13.9	0.0	1.1	4.5	0.0	0.0	11.4	1.7	0.6	0.6	0.0	0.0	0.0	0.3	21.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7
1990	695	3,4,5	17.8	3.7	0.6	8.3	0.0	16.8	0.0	0.9	2.0	0.0	0.4	1.7	0.3	0.6	0.0	0.0	0.0	0.0	0.6	14.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	31.7
1991	1360	2,4,5	17.5	0.0	0.1	5.1	0.4	7.0	0.0	1.1	0.3	0.2	0.0	0.6	0.8	0.2	0.1	0.0	0.0	0.0	0.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	56.9
1992	629	2,3,5	7.9	11.0	1.6	5.7	0.6	9.9	1.0	1.1	1.1	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	55.6
1993	326	2,3,4	10.7	1.2	2.5	8.0	0.0	16.3	0.0	0.0	3.1	0.0	0.0	1.8	0.6	0.0	0.6	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	50.3
1994	426	2,3,4,5	18.3	7.5	2.3	15.0	0.0	11.0	0.0	0.5	1.2	0.0	0.0	1.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	37.6
1995	832	2,3,4,5	15.4	0.0	4.7	7.2	0.6	3.8	0.0	0.0	0.4	0.0	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	65.7
1996	662	2,3,4,5	13.9	0.0	4.5	0.6	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.1	78.2
1997	939	2,3,4,5	15.3	0.0	0.0	1.5	0.0	1.1	0.0	0.2	0.0	0.4	0.0	0.1	0.5	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	75.8
1998	1128	2,3,4,5	9.8	0.0	0.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	82.0
1999	752	2,3,4,5	7.0	0.0	0.7	7.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	81.9
2000	518	2,3,4,5	6.0	0.2	2.9	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	88.8
2001	535	2,3,4,5	8.2	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	86.2
2002	707	2,3,4,5	19.9	0.0	0.8	5.0	3.3	1.4	0.0	0.3	0.0	0.3	0.0	0.0	2.0	0.0	0.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	65.1
2003	997	2,3,4,5	14.5	0.1	2.8	3.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	76.6
2004	1114	2,3,4,5	12.8	0.0	1.2	9.2	2.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.3	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	69.9
2005	604	2,3,4,5	11.4	0.2	1.5	11.1	2.2	0.0	0.0	0.0	0.0	1.5	0.0	0.0	7.9	0.8	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	62.4
2006	758	2,3,4,5	11.9	1.8	2.6	7.1	2.6	0.0	0.8	0.0	0.0	1.2	0.0	0.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.3
2007	331	2,3,4,5	20.2	0.3	4.8	9.1	4.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.9	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.9
2008	129	2,3,4,5	24.8	0.0	8.5	10.1	19.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
2009	345	2,3,4,5	12.8	0.0	0.0	9.0	1.2	0.0	1.4	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.7
2010	716	2,3,4,5	2.4	0.0	2.4	4.9	0.7	0.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	86.0
2011	1122	2,3,4,5	10.8	0.9	0.9	2.5	1.1	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	79.6
2012	596	2,3,4,5	8.1	2.2	1.8	10.2	2.9	0.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.3	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	66.6
2013	849	2,3,4,5	4.7	0.0	0.8	0.4	1.3	0.6	1.2	0.0	0.0	0.0	0.0	0.0	6.1	1.4	0.7	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	75.4
2014	822	2,3,4,5	14.7	2.2	1.0	6.4	1.5	1.3	1.9	0.0	0.0	0.6	0.0	0.0	6.0	0.9	1.1	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	660		14.1	3.8	1.7	8.3	0.2	11.2	0.1	0.7	1.8	0.0	0.1	2.5	1.3	0.2	0.2	0.0	0.0	0.0	0.2	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	45.5
96–98	910		13.0	0.0	1.6	3.2	0.0	0.8	0.0	0.1	0.0	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.8	78.7
99–08	644		13.7	0.3	2.9	6.2	3.6	0.3	0.1	0.0	0.0	0.3	0.0	0.0	2.7	0.1	0.2	0.1	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	68.8
09–15	742		8.9	0.9	1.2	5.6	1.4	0.8	1.6	0.0	0.0	0.1	0.0	0.0	2.5	0.9	0.5	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	72.7

Appendix C. 16– Percent distribution of Kitsumkalum River Summer (North/Central BC) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	8	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	28	3,4	32.1	10.7	0.0	7.1	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	81	3,4,5	56.8	0.0	0.0	18.5	0.0	0.0	0.0	0.0	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	194	4,5,6	28.9	0.0	1.5	7.7	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.0
1986	216	3,5,6	10.2	0.0	0.0	13.9	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	64.8
1987	263	3,4,6	13.3	0.0	2.7	9.9	0.4	0.0	0.0	0.0	7.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	62.7
1988	201	3,4,5	24.4	1.5	4.5	7.5	0.5	0.0	0.0	0.0	18.4	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	37.3
1989	850	3,4,5,6	14.1	0.7	6.9	5.2	1.6	0.0	0.0	0.0	10.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	55.6
1990	636	3,4,5,6	11.8	0.0	3.1	7.9	0.8	0.0	0.0	0.3	6.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	61.8
1991	335	3,4,5,6	19.7	0.0	4.2	10.7	3.9	0.0	0.0	0.9	14.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	36.7
1992	692	3,4,5,6	15.2	0.0	1.9	7.9	3.6	0.4	0..	0.0	9.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	58.7
1993	241	3,4,5,6	11.6	2.1	2.1	11.2	2.9	0.0	0.0	0.0	17.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0
1994	131	3,4,5,6	13.7	0.0	0.0	6.1	3.8	0.0	0.0	0.0	18.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.7
1995	202	3,4,5,6	13.4	0.0	3.5	10.4	2.5	0.0	0.0	0.0	26.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	38.6
1996	537	3,4,5,6	10.6	0.2	6.9	0.2	0.4	0.0	0.0	0.0	17.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	60.0
1997	647	3,4,5,6	12.2	0.0	9.0	0.0	3.6	0.0	0.0	0.0	7.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	60.4
1998	504	3,4,5,6	10.5	0.0	3.4	0.0	0.4	0.0	0.0	0.0	1.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	79.4
1999	728	3,4,5,6	12.8	0.0	10.2	0.0	11.4	0.0	0.0	0.0	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	61.7
2000	354	3,4,5,6	9.0	0.0	10.2	0.0	8.2	0.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	62.1
2001	562	3,4,5,6	12.3	0.0	10.1	0.7	0.0	0.0	0.0	0.0	10.1	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	59.1
2002	1041	3,4,5,6	14.4	0.4	6.1	1.5	6.0	0.0	0.0	0.0	3.2	4.9	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	61.0
2003	633	3,4,5,6	15.6	0.0	1.9	5.8	2.8	0.0	0.0	0.0	0.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	66.7
2004	948	3,4,5,6	8.0	3.4	5.8	0.8	10.5	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	69.1
2005	308	3,4,5,6	18.8	0.0	3.2	3.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.0	59.4
2006	309	3,4,5,6	14.2	3.9	1.9	2.9	6.5	0.0	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	59.2
2007	542	3,4,5,6	13.7	0.9	3.1	1.7	6.6	0.0	0.0	0.0	2.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	68.3
2008	532	3,4,5,6	7.1	0.2	2.1	2.6	7.0	0.0	0.0	0.0	11.8	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.0	0.0	0.0	48.3
2009	707	3,4,5,6	12.7	2.5	5.2	1.3	4.2	0.4	0.0	0.0	0.7	3.5	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	68.3
2010	1010	3,4,5,6	5.3	0.4	4.1	2.4	5.5	0.0	0.0	0.0	0.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	70.8
2011	539	3,4,5,6	12.1	0.0	0.9	1.9	3.9	0.0	0.0	0.0	6.7	10.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	62.0
2012	292	3,4,5,6	14.7	1.0	1.7	1.0	4.5	0.0	0.0	0.0	1.4	5.8	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.8
2013	232	3,4,5,6	10.8	0.0	3.4	6.5	1.3	0.0	0.0	0.0	0.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	68.1
2014	273	3,4,5,6	10.3	0.4	2.2	1.5	3.3	0.0	0.0	0.0	1.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	67.0
2015	481	3,4,5,6	11.0	7.1	2.3	2.7	3.3	0.0	0.0	0.0	1.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	61.1
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	360		16.0	0.4	2.8	8.9	1.8	0.0	0.0	0.1	13.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	52.0
96–98	563		11.1	0.1	6.4	0.1	1.4	0.0	0.0	0.0	8.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	66.6
99–08	596		12.6	0.9	5.5	1.9	6.7	0.0	0.0	0.0	4.4	2.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	61.5
09–15	505		11.0	1.6	2.8	2.5	3.7	0.1	0.0	0.0	1.8	6.4	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	66.6

[1] Estimates for this year can only be used for distribution of fishing mortalities because the escapement data are insufficient.

Appendix C. 17– Percent distribution of Lower River Hatchery Tule (Lower Bonneville Hatchery) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	165	2,3	0.0	0.0	0.0	0.0	0.0	40.0	0.0	3.6	0.0	0.0	0.0	0.0	4.8	23.6	4.8	1.2	0.0	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	4.2
1980	666	2,3,4	0.5	0.0	0.0	0.2	0.0	29.0	0.6	0.8	0.9	0.0	0.0	4.5	2.4	20.6	8.6	3.0	0.5	0.6	1.4	11.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	11.6
1981	3195	2,3,4,5	0.0	0.0	0.0	0.0	0.0	32.0	0.0	0.5	0.1	0.0	0.0	2.3	2.0	21.4	7.9	3.1	0.1	0.1	0.3	3.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.3	0.0	24.7
1982	3500	2,3,4,5	0.0	0.0	0.0	0.3	0.0	27.6	0.4	1.9	0.0	0.0	0.0	0.3	0.9	17.6	7.5	3.0	0.3	0.9	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.1	0.0	24.1
1983	2017	2,3,4,5	0.0	0.0	0.0	0.0	0.0	36.7	0.0	2.5	0.3	0.0	0.0	0.5	2.0	12.2	4.3	0.2	0.0	0.8	0.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.1	29.7
1984	1610	2,3,4,5	0.0	0.0	0.0	0.0	0.0	52.2	0.2	3.4	0.0	0.0	0.5	1.6	0.8	4.0	1.1	2.3	0.2	0.4	0.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	9.8	1.5	0.4	20.1
1985	1089	2,3,4,5	0.0	0.0	0.0	0.0	0.0	30.2	0.7	0.8	0.4	0.0	0.0	1.1	1.1	13.2	3.1	4.3	0.7	1.4	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.6	0.0	38.5
1986	1795	2,3,4,5	0.0	0.0	0.0	0.0	0.0	8.7	2.3	0.0	0.6	0.0	0.0	6.5	2.8	3.4	1.6	2.6	0.3	1.0	0.1	22.7	0.0	0.0	0.0	0.0	0.0	0.0	7.3	4.6	0.2	35.4
1987	8831	2,3,4,5	0.0	0.0	0.0	0.2	0.0	33.7	1.9	2.0	0.0	0.0	0.0	0.2	0.6	11.1	3.0	6.0	0.7	0.7	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	16.4	3.5	0.2	17.8
1988	2668	2,3,4,5	0.3	0.0	0.0	0.3	0.0	32.0	1.9	0.6	0.0	0.0	0.0	0.0	1.6	8.7	0.8	2.6	0.1	0.5	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	22.2	1.8	1.2	24.5
1989	273	2,3,4,5	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	0.0	0.0	0.0	1.8	0.0	14.7	1.5	9.5	0.7	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.7	0.0	45.8
1990	322	2,3,4,5	0.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0	0.3	0.0	0.0	1.6	0.0	14.6	6.2	3.7	0.9	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.5	0.0	45.0
1991	488	2,3,4,5	0.0	0.0	0.0	0.0	0.0	12.3	2.5	0.2	0.0	0.0	0.0	2.5	0.8	8.6	3.1	2.5	1.4	0.0	0.2	2.7	0.0	0.0	0.0	0.0	0.0	0.0	1.8	9.0	0.0	52.5
1992	1314	2,3,4,5	0.0	0.0	0.0	0.0	0.0	19.9	1.8	0.6	0.0	0.0	0.0	0.8	0.0	25.1	3.8	4.9	1.7	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.0	0.0	35.5
1993	528	2,3,4,5	0.0	0.0	0.0	0.0	0.0	21.0	4.4	0.8	0.0	0.0	0.0	0.0	0.0	15.2	2.3	5.5	0.2	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.2	0.0	40.2
1994	31	2,3,4,5	0.0	0.0	0.0	0.0	0.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.1
1995	30	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	10.0	0.0	86.7
1996	68	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	5.9	0.0	2.9	75.0
1997	223	2,3,4,5	0.0	0.0	0.0	0.0	0.0	22.0	3.6	0.0	0.0	0.0	0.0	0.0	2.2	3.1	3.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	8.1	1.8	49.8
1998	111	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.9	10.8	0.0	0.0	4.5	0.0	0.0	0.0	0.9	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	19.8	0.9	58.6
1999	331	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.1	9.4	0.0	0.0	0.0	0.0	0.0	0.0	4.5	1.5	2.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	6.3	0.0	68.3
2000	273	2,3,4,5	0.0	0.0	0.0	0.0	0.0	16.8	12.8	0.0	0.0	0.0	0.0	0.0	1.8	2.2	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.9	0.0	57.5
2001	1215	2,3,4,5	0.0	0.0	0.0	0.0	0.0	8.6	2.4	0.0	0.0	0.0	0.0	0.0	0.2	7.9	2.8	12.5	0.7	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	4.3	0.9	57.3
2002	2015	2,3,4,5	0.4	0.0	0.0	0.0	0.0	9.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	17.5	5.7	3.5	1.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	2.6	0.0	49.5
2003	2122	2,3,4,5	0.0	0.0	0.0	0.0	0.0	13.1	5.7	0.0	0.0	0.0	0.0	0.0	0.4	10.9	5.9	3.9	0.2	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	5.8	1.9	0.0	51.3
2004	1618	2,3,4,5	0.5	0.0	0.0	0.3	0.0	21.3	8.8	0.0	0.0	0.0	0.0	0.0	0.7	4.5	3.5	4.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15.1	1.2	0.0	39.7
2005	617	2,3,4,5	0.0	0.0	0.0	0.3	0.0	29.3	7.6	0.0	0.0	0.0	0.0	0.0	0.0	5.2	2.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.1	0.2	0.0	38.6
2006	87	2,3,4,5	0.0	0.0	0.0	0.0	0.0	16.1	14.9	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	1.1	0.0	56.3
2007	162	2,3,4,5	0.0	0.6	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	2.5	0.0	72.2
2008	388	2,3,4,5	0.0	0.0	0.0	0.0	0.0	11.3	8.0	0.0	0.0	0.0	0.0	0.0	1.8	4.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	3.1	0.0	41.5
2009	586	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.3	8.2	0.0	0.0	0.0	0.0	0.0	3.8	4.1	4.9	0.0	0.0	0.0	0.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	27.3	2.6	0.0	37.2
2010	1590	2,3,4,5	0.1	0.0	0.0	0.3	0.0	6.7	6.3	0.0	0.0	0.0	0.0	0.0	2.9	14.9	5.4	3.8	0.0	0.3	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	26.8	3.1	0.0	29.2
2011	836	2,3,4,5	0.0	0.0	0.0	0.0	0.0	9.4	6.5	0.0	0.0	1.0	0.0	0.0	0.5	4.8	7.5	2.3	0.4	2.3	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	17.5	3.1	0.0	42.0
2012	864	2,3,4,5	0.0	0.0	0.0	0.5	0.0	3.0	8.1	0.0	0.0	0.0	0.0	0.0	1.3	9.4	13.1	6.8	1.5	0.2	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	2.7	0.0	35.3
2013	704	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.3	3.3	0.0	0.0	0.6	0.0	0.0	3.1	6.5	6.1	2.1	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	15.3	3.6	0.0	45.0
2014	2565	2,3,4,5	0.0	0.1	0.1	0.0	0.0	6.1	2.9	0.0	0.0	0.0	0.1	0.0	3.2	15.7	13.2	8.0	1.0	0.4	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	14.5	3.1	0.2	29.7
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	2198		0.1	0.0	0.0	0.1	0.0	35.5	0.2	1.8	0.3	0.0	0.1	1.8	1.6	15.2	5.9	2.3	0.2	0.5	0.7	4.7	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.4	0.1	22.0
85–95	1923		0.0	0.0	0.0	0.1	0.0	22.0	1.7	0.6	0.1	0.0	0.0	1.6	0.8	12.7	2.8	4.6	0.8	0.4	0.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	6.5	3.3	0.2	37.2
96–98	167		0.0	0.0	0.0	0.0	0.0	11.4	7.2	0.0	0.0	2.3	0.0	0.0	1.1	2.0	2.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	13.9	1.3	54.2
99–08	971		0.1	0.1	0.0	0.1	0.0	13.6	6.4	0.0	0.0	0.0	0.0	0.0	0.5	7.2	3.4	3.2	0.5	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	8.5	2.8	0.1	52.9
09–15	1191		0.0	0.0	0.0	0.1	0.0	5.3	5.9	0.0	0.0	0.3	0.0	0.0	2.4	9.2	8.4	3.8	0.5	0.5	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	19.4	3.0	0.0	36.4

Appendix C. 18– Percent distribution of Lewis River Wild (Lewis River Wild) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	183	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	295	2,3	4.7	0.0	0.0	4.7	0.0	19.7	0.0	1.0	3.4	0.0	2.7	0.7	0.0	7.1	2.0	0.0	0.0	0.0	0.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	7.8	8.8	0.3	32.9
1981	1187	2,3,4	7.6	0.0	0.0	3.7	0.0	7.0	0.0	1.6	0.2	0.0	0.0	0.8	2.2	1.9	2.9	0.6	0.1	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.9	12.9	2.8	51.6
1982	969	3,4,5	7.6	0.8	0.1	3.3	0.0	11.1	0.0	1.5	0.7	0.0	0.4	0.7	0.0	3.4	7.6	1.0	0.0	0.8	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	4.4	15.1	1.2	38.5
1983	1079	4,5	14.8	0.3	0.0	3.6	0.0	8.1	0.0	3.1	0.0	0.0	0.0	0.0	0.2	1.5	3.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.5	1.8	58.5
1984	366	2,5	9.3	0.0	0.0	5.5	0.0	3.6	0.0	0.5	2.2	0.0	0.0	0.5	0.0	0.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.7	9.0	5.2	49.5
1985	343	2,3	2.3	0.6	0.0	6.7	0.0	9.9	0.3	0.3	1.5	0.0	0.0	3.8	0.0	0.3	2.0	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	20.1	7.9	29.2
1986	673	2,3,4	6.2	0.0	0.0	2.5	0.0	8.3	2.5	2.4	0.9	0.0	0.0	0.0	0.0	1.6	0.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.1	11.3	0.9	35.7
1987	1162	2,3,4,5	5.6	0.0	0.0	5.5	0.0	9.7	0.9	1.5	0.0	0.0	0.0	0.0	0.0	1.1	0.9	1.7	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	23.9	5.0	2.3	41.2
1988	984	2,3,4,5	5.3	0.0	0.0	3.6	0.0	10.9	0.0	0.0	0.5	0.0	0.0	0.1	0.0	3.9	0.6	1.0	0.4	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	21.6	14.1	1.9	34.7
1989	1343	2,3,4,5	2.4	0.7	0.2	5.1	0.4	6.0	0.0	0.2	0.7	0.0	0.0	0.8	0.5	3.1	0.7	2.3	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	6.6	4.5	56.7
1990	1203	2,3,4,5	7.3	0.0	0.0	1.9	0.0	13.4	0.0	0.4	0.6	0.6	0.0	0.0	0.8	2.7	1.8	1.5	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2	2.2	1.7	60.7
1991	910	2,3,4,5	7.0	0.2	0.0	4.2	1.2	6.5	0.0	0.4	0.0	0.0	0.0	0.7	0.0	1.3	0.5	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	6.0	1.3	53.5
1992	572	2,3,4,5	1.9	0.0	0.0	4.2	0.0	6.8	0.0	1.9	0.0	0.0	0.0	0.0	0.9	1.2	0.3	1.9	0.3	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	21.9	2.3	50.9
1993	404	2,3,4,5	4.2	0.0	1.0	5.9	0.0	8.7	0.0	0.0	0.2	0.0	0.0	1.5	0.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	8.7	5.7	55.7
1994	264	2,3,4,5	8.7	0.0	0.0	4.9	0.0	3.8	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	3.8	75.0
1995	551	2,3,4,5	7.4	0.0	2.2	4.0	0.0	6.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.3	2.4	52.8
1996	330	2,3,4,5	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.5	0.3	82.1
1997	234	3,4,5	15.4	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	76.9
1998	101	2,4,5	7.9	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.0	8.9	74.3
1999	62	2,3,5	17.7	0.0	1.6	8.1	0.0	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	66.1
2000	72	2,3,4	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.3	2.8	6.9	65.3
2001	237	2,3,4,5	5.9	0.0	1.7	0.0	0.0	8.9	3.8	0.0	0.0	0.0	0.0	0.0	0.0	5.1	2.1	1.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	3.0	3.0	62.4
2002	389	2,3,4,5	14.9	0.0	1.8	0.0	0.0	5.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	2.3	3.9	52.7
2003	477	2,3,4,5	10.7	0.0	0.0	1.7	1.3	4.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	6.1	1.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.9	1.3	55.3
2004	2172	2,3,4,5	6.6	0.0	0.5	3.3	0.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.9	0.4	81.1
2005	390	2,3,4,5	4.1	0.0	0.0	13.1	7.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5	8.7	0.3	48.2
2006	590	2,3,4,5	14.6	0.0	0.5	6.6	1.7	8.3	1.0	0.0	0.0	0.0	0.0	0.0	1.9	1.2	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	19.2	1.4	37.3
2007	206	2,3,4,5	37.4	0.0	1.0	6.3	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	1.5	39.3
2008	142	2,3,4,5	8.5	0.0	0.0	0.0	1.4	12.7	0.0	0.0	0.0	2.8	0.0	0.0	0.0	5.6	0.7	0.0	0.0	0.0	0.0	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	57.7
2009	176	2,3,4,5	19.9	0.0	0.0	3.4	2.3	6.3	19.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.4	0.0	42.6
2010	200	2,3,4,5	6.5	0.0	0.0	5.0	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	8.0	0.0	64.0
2011	225	2,3,4,5	12.0	0.0	1.3	12.4	1.3	4.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	20.9	1.8	30.7
2012	271	2,3,4,5	12.2	2.2	0.4	3.3	3.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	16.6	1.1	43.5
2013	300	2,3,4,5	1.3	0.0	1.0	2.7	1.0	3.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	35.3	1.3	44.7
2014	270	2,3,4,5	8.5	0.4	0.0	6.7	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.8	1.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.4	57.4
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	1078		7.6	0.4	0.1	3.5	0.0	9.1	0.0	1.6	0.4	0.0	0.2	0.7	1.1	2.7	5.3	0.8	0.0	0.4	0.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	4.2	14.0	2.0	45.0
85–95	807		5.6	0.1	0.3	4.2	0.2	8.0	0.3	0.7	0.3	0.1	0.0	0.5	0.2	1.7	0.6	1.1	0.1	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	11.0	10.0	2.7	51.7
96–98	282		12.4	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.8	0.2	79.5
99–08	575		12.8	0.0	0.7	3.9	1.5	6.1	1.5	0.0	0.0	0.4	0.0	0.0	0.3	3.0	1.3	1.9	0.1	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	4.4	5.7	1.4	54.3
09–15	240		10.1	0.4	0.5	5.6	1.7	4.5	4.4	0.0	0.0	0.0	0.0	0.0	0.6	3.0	2.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	14.0	0.8	47.1

Appendix C. 19– Percent distribution of Lyons Ferry (Lyons Ferry Hatchery) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery														Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	335	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	751	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	773	2,4	3.2	0.0	0.1	3.8	0.0	22.6	0.0	0.6	0.3	0.0	0.0	0.0	0.0	6.9	0.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	3.6	0.0	25.7
1989	395	2,3,5	1.5	0.0	0.0	6.1	0.0	17.7	1.8	0.0	0.8	0.0	0.0	2.3	0.0	8.1	1.3	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.7	1.5	0.0	29.4
1990	545	2,3,4	2.9	0.0	0.0	2.6	0.0	18.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	8.1	3.7	5.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	1.1	0.0	33.2
1991	354	2,3,4,5	2.3	0.0	2.0	4.0	0.0	11.6	0.0	0.0	0.3	0.0	0.0	0.8	0.0	0.6	0.6	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.8	0.3	64.7
1992	264	3,4,5	1.9	0.0	0.0	7.2	1.5	11.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	4.9	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.7	6.1	0.0	53.0
1993	229	4,5	7.0	0.0	0.0	11.4	0.0	13.1	0.0	0.0	0.0	0.0	0.0	1.3	0.0	3.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	5.7	40.2
1994	105	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	30	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	41	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	159	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	123	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	697	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	1661	2,3	1.1	0.1	0.1	0.1	0.0	0.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.3	4.3	5.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.1	3.5	1.1	73.9
2002	1850	3,4	3.4	0.0	0.5	0.6	0.0	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	4.9	3.4	1.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7	3.5	0.0	70.6
2003	657	2,4,5	6.2	0.0	0.0	1.4	0.2	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	1.8	3.5	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	8.8	0.8	0.2	69.1
2004	689	2,3,5	3.3	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.3	1.5	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.7	0.3	88.2
2005	422	2,3,4	3.6	0.2	0.0	2.8	0.0	3.8	0.0	0.0	0.0	1.9	0.0	0.0	0.0	2.1	2.6	2.6	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.9	0.0	64.9
2006	423	2,3,4,5	3.8	0.0	0.0	0.5	1.7	0.7	1.4	0.0	0.0	1.2	0.0	0.0	0.0	6.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	0.9	0.0	75.4
2007	1568	2,3,4,5	0.2	0.1	0.0	0.2	0.0	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.1	0.1	0.1	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.4	1.2	0.0	90.7
2008	2507	2,3,4,5	0.2	0.0	0.0	0.2	0.2	6.2	1.2	0.0	0.0	0.2	0.0	0.0	0.6	4.1	2.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	7.6	2.4	0.0	74.6
2009	3419	2,3,4,5	0.8	0.0	0.1	0.8	0.0	1.6	1.7	0.0	0.0	0.0	0.0	0.0	0.2	1.5	1.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	6.0	2.2	0.1	83.6
2010	1943	2,3,4,5	0.5	0.2	0.0	1.3	0.1	5.6	4.0	0.0	0.0	0.0	0.0	0.0	0.6	8.5	6.9	0.9	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	15.6	3.6	0.0	51.6
2011	1953	2,3,4,5	0.8	0.0	0.2	1.0	0.2	3.8	3.0	0.0	0.0	0.0	0.0	0.0	0.3	4.4	1.9	0.9	0.6	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	15.5	5.9	0.0	60.2
2012	2427	2,3,4,5	1.3	0.2	0.1	0.3	0.0	3.6	3.2	0.0	0.0	0.2	0.0	0.0	0.4	5.8	3.5	2.3	0.7	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	10.8	12.8	7.5	46.4
2013	1929	2,3,4,5	1.9	0.0	0.0	1.1	0.2	3.0	2.3	0.0	0.0	0.0	0.0	0.0	0.4	7.5	3.4	3.8	0.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	26.9	15.1	0.0	33.9
2014	1628	2,3,4,5	7.6	0.3	0.2	2.1	0.8	6.5	0.5	0.0	0.0	0.0	0.0	0.0	0.7	8.0	2.1	3.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	6.8	1.2	35.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	390		2.2	0.0	0.5	4.9	0.4	14.8	1.5	0.0	0.4	0.0	0.0	0.8	0.0	4.8	1.4	4.8	1.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	14.3	2.4	0.1	45.1
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	1044		2.9	0.1	0.0	0.9	0.3	2.5	0.5	0.0	0.0	0.6	0.0	0.0	0.1	3.0	1.6	1.3	0.1	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	6.8	1.2	0.1	77.2
09–15	2216		2.1	0.1	0.1	1.1	0.2	4.0	2.4	0.0	0.0	0.0	0.0	0.0	0.4	5.9	3.2	1.9	0.4	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	16.5	7.7	1.5	51.8

Appendix C. 20– Percent distribution of Lyons Ferry Yearling total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							iSBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	194	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	446	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	1888	2,4	0.2	0.0	0.0	2.3	0.3	20.8	1.2	1.2	0.0	0.0	0.0	0.4	0.1	8.6	1.7	11.6	0.3	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	8.3	1.2	0.0	41.3
1989	1760	2,3,5	0.3	0.5	0.0	1.6	0.0	9.0	6.3	0.5	0.2	0.0	0.1	3.2	0.0	8.4	1.5	5.1	1.3	0.1	0.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	14.4	2.6	0.0	42.2
1990	3710	2,3,4,6	0.5	0.0	0.0	0.6	0.0	17.4	2.3	0.7	0.9	0.0	0.0	0.4	1.1	9.3	4.8	10.9	0.5	0.0	0.3	2.8	0.0	0.0	0.0	0.0	0.0	0.0	12.3	1.3	0.7	33.4
1991	2850	3,4,5	0.2	0.0	0.0	0.7	0.0	12.2	2.0	0.1	1.0	0.0	0.2	0.8	0.5	7.4	1.1	5.2	1.1	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	15.6	1.1	0.0	49.5
1992	2179	4,5,6	0.9	0.0	0.0	2.6	0.0	22.1	3.4	0.0	0.4	0.2	0.0	0.5	0.1	17.2	1.7	4.5	0.5	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	8.9	1.8	0.0	33.2
1993	716	2,5,6	4.9	0.0	0.0	1.7	0.0	26.4	1.4	0.0	0.0	0.0	0.4	0.0	0.3	9.2	1.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	1.8	31.8
1994	406	2,3,6	0.5	0.0	0.0	0.2	0.0	1.7	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.2	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.7	1.2	86.9
1995	4937	2,3,4	0.3	0.0	0.0	0.6	0.1	0.8	0.4	0.1	0.6	0.0	0.0	0.1	0.1	0.4	0.1	0.5	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.3	0.4	92.3
1996	3201	2,3,4,5	0.9	0.1	0.1	0.9	0.0	1.0	0.6	0.0	1.2	0.1	0.0	0.0	0.2	1.0	0.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	15.1	2.9	0.9	69.1
1997	3215	2,3,4,5,6	1.8	0.0	0.0	1.1	0.0	4.8	0.9	0.4	0.3	0.2	0.0	0.3	0.2	1.3	0.5	7.2	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	11.5	4.8	1.7	62.5
1998	5576	2,3,4,5,6	1.7	0.1	0.2	2.6	0.9	0.1	0.0	0.0	0.1	0.4	0.0	0.0	0.1	1.3	0.3	1.8	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.1	6.0	0.4	73.8
1999	7351	2,3,4,5,6	1.4	0.1	0.3	0.9	0.1	1.2	1.3	0.1	0.1	0.0	0.0	0.0	0.5	7.3	2.0	5.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	3.9	1.2	65.9
2000	6396	2,3,4,5,6	1.6	0.0	0.1	0.0	0.0	6.4	3.8	0.0	0.0	0.1	0.0	0.0	0.1	2.7	3.7	3.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	4.1	0.9	61.3
2001	9908	2,3,4,5,6	0.7	0.0	0.1	0.0	0.0	7.6	1.6	0.0	0.0	0.4	0.0	0.0	0.2	5.3	3.9	15.0	1.2	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	13.4	3.8	0.4	45.8
2002	7257	2,3,4,5,6	1.2	0.2	0.0	0.8	0.1	6.8	1.6	0.0	0.0	0.5	0.0	0.4	0.0	11.4	8.8	6.1	1.7	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	10.2	4.0	0.5	45.4
2003	10637	2,3,4,5,6	0.6	0.0	0.0	0.2	0.1	6.3	1.1	0.0	0.0	0.0	0.0	0.0	0.2	4.5	2.3	3.6	0.9	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	7.1	2.2	0.3	70.4
2004	14446	2,3,4,5,6	0.4	0.0	0.0	0.3	0.0	3.7	0.8	0.0	0.0	0.1	0.0	0.0	0.1	4.4	2.0	4.9	1.2	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	5.0	2.1	0.5	73.8
2005	8147	2,3,4,5,6	0.4	0.0	0.0	0.5	0.2	9.1	2.3	0.0	0.0	0.4	0.0	0.0	0.3	7.2	6.1	5.1	0.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	10.3	1.9	0.5	54.8
2006	5744	2,3,4,5,6	0.4	0.0	0.1	1.3	0.5	4.6	1.7	0.0	0.0	0.2	0.0	0.0	0.3	5.4	2.4	1.3	0.2	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	9.7	1.8	1.0	68.5
2007	7632	2,3,4,5,6	0.9	0.3	0.1	0.5	0.0	5.4	1.2	0.0	0.1	0.0	0.0	0.0	0.8	4.3	2.6	1.6	0.7	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	7.3	2.0	0.7	70.9
2008	5965	2,3,4,5,6	0.3	0.0	0.0	0.1	0.4	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.4	3.8	1.5	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.5	2.3	0.1	75.7
2009	11297	2,3,4,5,6	0.1	0.1	0.0	0.2	0.1	1.5	3.9	0.0	0.0	0.1	0.0	0.0	0.6	3.0	4.9	0.0	0.1	0.0	0.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0	9.2	3.3	0.0	70.3
2010	6520	2,3,4,5,6	0.9	0.1	0.0	1.1	0.2	6.5	3.5	0.0	0.0	0.3	0.0	0.0	0.4	9.9	9.9	3.3	0.2	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	25.6	3.2	0.4	34.0
2011	6043	2,3,4,5,6	0.5	0.0	0.0	0.4	0.1	3.8	2.7	0.0	0.0	0.0	0.0	0.0	0.3	5.4	6.8	1.3	0.8	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	21.0	8.5	0.0	47.5
2012	4783	2,3,4,5,6	0.7	0.2	0.0	0.4	0.0	2.6	3.6	0.0	0.0	0.1	0.0	0.0	0.8	8.8	6.2	5.6	1.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	17.0	9.6	5.9	36.6
2013	4963	2,3,4,5,6	0.5	0.1	0.0	0.2	0.1	1.8	2.3	0.0	0.0	0.1	0.0	0.0	1.1	10.2	5.4	3.2	0.6	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	22.4	13.7	0.5	37.1
2014	5220	2,3,4,5,6	0.9	0.2	0.2	1.0	0.1	4.8	1.7	0.0	0.0	0.2	0.0	0.0	0.7	15.0	5.6	7.8	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	25.0	10.5	0.4	24.7
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	2365		1.1	0.1	0.0	1.1	0.0	12.8	2.3	0.2	0.5	0.0	0.1	0.7	0.3	7.5	1.5	4.9	0.5	0.0	0.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	10.3	1.4	0.6	52.8
96–98	3997		1.5	0.1	0.1	1.5	0.3	1.9	0.5	0.1	0.5	0.3	0.0	0.1	0.2	1.2	0.3	4.9	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	12.2	4.5	1.0	68.4
99–08	8348		0.8	0.1	0.1	0.5	0.1	5.5	1.7	0.0	0.0	0.2	0.0	0.0	0.3	5.6	3.5	4.7	0.8	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.1	2.8	0.6	63.3
09–15	6471		0.6	0.1	0.0	0.6	0.1	3.5	3.0	0.0	0.0	0.1	0.0	0.0	0.7	8.7	6.5	3.5	0.6	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	20.0	8.1	1.2	41.7

Appendix C. 21– Percent distribution of Middle Shuswap River Summer (Fraser Early) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	3	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	57	2,3	7.0	0.0	1.8	7.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	1.8	0.0	0.0	0.0	0.0	47.4
2012	291	2,3,4	8.2	0.0	1.7	10.3	7.9	2.1	0.3	0.0	0.0	0.3	0.0	0.7	13.7	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.3	2.7	0.0	0.0	0.0	1.4	36.8
2013	1645	2,3,4,5	2.2	0.0	0.5	6.8	2.7	0.3	0.6	0.0	0.0	0.1	0.0	1.1	14.4	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	0.0	1.3	62.4
2014	1160	2,3,4,5	8.6	0.0	0.9	6.0	4.1	3.2	1.6	0.0	0.0	0.4	0.0	1.6	7.4	0.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	5.7	0.0	0.0	0.0	0.5	55.6
2015	2049	3,4,5	3.7	0.0	0.3	1.9	0.7	1.5	0.9	0.0	0.0	0.5	0.0	0.7	13.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.4	0.0	0.0	0.0	4.8	64.6
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09–15	1286		5.7	0.0	0.9	6.3	3.8	1.8	0.9	0.0	0.0	0.4	0.0	1.0	12.3	1.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.9	0.0	0.0	0.0	2.0	54.8

Appendix C. 22– Percent distribution of Nanaimo River Fall (Lower Strait of Georgia Natural) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	286	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	1551	2,3	0.5	0.1	0.0	1.9	0.0	1.5	0.0	4.5	4.6	0.0	17.2	27.7	34.3	0.0	0.0	0.0	0.0	0.0	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.1	6.4
1983	1873	3,4	1.5	0.2	0.0	2.1	0.0	3.3	0.0	15.3	1.7	0.2	18.2	6.1	28.0	0.0	0.0	0.0	0.0	0.0	0.2	0.8	0.0	0.0	0.0	0.5	0.0	0.0	0.4	0.0	0.0	21.6
1984	540	2,4,5	4.3	0.0	0.0	1.9	0.0	1.7	0.0	12.6	3.0	0.0	1.1	16.3	46.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	11.1
1985	57	3,5	15.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8	10.5	35.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	12.3
1986	27	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	24	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	394	2,3	0.0	0.0	0.0	0.5	0.0	2.0	0.0	0.8	9.4	0.0	3.8	20.8	56.3	0.3	0.0	0.0	0.0	0.0	1.5	1.3	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.3	1.3
1991	1181	2,3,4	0.2	0.4	0.0	0.8	0.1	1.8	0.3	1.1	2.0	0.1	6.9	6.2	57.3	0.7	0.0	0.0	0.0	0.0	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	19.1
1992	2322	2,3,4,5	0.1	0.0	0.0	0.6	0.0	5.1	0.0	1.2	2.2	0.2	8.2	3.4	48.8	0.4	0.1	0.0	0.0	0.0	0.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	28.1
1993	1634	2,3,4,5	0.1	0.4	0.0	1.7	0.2	2.7	0.0	1.3	1.0	0.0	6.1	3.3	57.8	0.6	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.4	23.3
1994	492	2,3,4,5	0.6	0.0	0.0	0.6	0.0	3.9	0.0	0.0	1.2	0.8	0.8	5.5	39.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.4	44.1
1995	1616	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.5	0.2	0.0	1.4	0.2	0.0	1.7	37.8	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.2	54.6
1996	945	2,3,4,5	0.0	1.3	0.0	0.0	0.0	0.3	0.4	0.0	2.1	0.0	0.0	0.2	68.3	0.2	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	3.7	0.0	0.0	0.4	0.0	2.2	17.7
1997	284	2,3,4,5	6.3	0.0	0.0	4.2	0.0	0.7	0.4	2.8	1.4	0.0	0.0	1.4	40.8	0.0	0.0	0.0	0.0	1.1	2.5	3.9	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.7	32.7
1998	264	2,3,4,5	1.1	4.5	0.0	6.1	0.0	0.4	0.0	0.0	0.4	1.9	0.0	1.5	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	2.7	37.1
1999	303	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	39.3	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	1.0	0.7	0.0	2.6	0.0	2.3	50.2
2000	171	3,4,5	0.0	0.0	0.0	0.0	0.0	2.9	2.9	0.0	0.0	0.0	0.0	0.0	52.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	2.3	33.9
2001	533	2,4,5	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.2	0.0	0.0	2.4	0.0	0.0	2.8	0.0	0.4	43.7
2002	924	2,3,5	0.3	0.1	0.0	0.0	0.2	1.0	0.1	0.0	0.0	0.4	0.0	2.6	43.2	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.5	0.0	0.0	4.2	0.0	0.0	2.1	0.0	0.5	40.7
2003	864	2,3,4	0.1	0.7	0.1	0.1	0.0	3.7	0.0	0.0	0.0	2.4	0.0	0.0	25.5	0.0	0.0	0.0	0.0	0.0	0.2	3.2	0.0	0.0	0.0	1.3	0.0	0.0	2.0	0.0	2.1	58.6
2004	803	2,3,4,5	1.1	0.0	0.0	0.7	2.4	5.5	1.1	0.0	0.0	2.7	0.0	0.0	17.2	0.7	0.0	0.0	0.0	0.0	1.0	3.1	0.0	0.0	0.0	1.4	0.0	0.0	0.5	0.0	4.6	57.9
2005	419	3,4,5	0.7	0.0	0.7	1.9	0.0	7.6	0.0	0.0	0.0	7.9	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	0.7	1.2	0.0	0.0	0.0	24.1	0.0	0.0	2.4	0.0	0.7	36.0
2006	1543	2,4,5	0.3	0.0	0.0	0.1	0.0	0.5	0.1	0.0	0.0	0.1	0.0	0.0	15.1	0.0	0.0	0.1	0.0	0.0	0.1	1.7	0.0	0.0	0.0	4.8	0.0	0.0	0.1	0.0	1.6	75.6
2007	1089	3,5	1.3	0.0	0.0	0.1	0.0	4.4	0.5	0.0	0.0	0.9	0.0	0.0	35.1	0.2	0.0	0.5	0.0	0.0	0.0	0.8	0.0	0.0	0.0	5.1	0.0	0.0	1.1	0.0	1.1	48.9
2008	261	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	540		4.3	0.0	0.0	1.9	0.0	1.7	0.0	12.6	3.0	0.0	1.1	16.3	46.7	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	11.1
85–95	1449		0.2	0.2	0.0	0.7	0.1	3.0	0.1	0.7	1.6	0.3	4.4	4.0	48.3	0.3	0.0	0.0	0.0	0.0	0.4	1.2	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.0	0.3	33.8
96–98	498		2.5	1.9	0.0	3.4	0.0	0.5	0.3	0.9	1.3	0.6	0.0	1.0	50.9	0.1	0.0	0.0	0.0	0.4	0.8	2.3	0.0	0.0	0.0	1.2	0.0	0.0	0.7	0.0	1.9	29.2
99–08	695		0.3	0.1	0.1	0.4	0.3	2.8	0.7	0.0	0.0	1.7	0.0	0.3	31.1	0.1	0.0	0.0	0.0	0.0	0.3	3.2	0.1	0.0	0.0	5.6	0.1	0.0	1.6	0.0	1.8	49.6
09–15	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix C. 23– Percent distribution of Nicola River Spring (Fraser Early) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	8	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	186	2,3	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	7.5	25.3	0.5	1.6	0.0	0.0	0.0	5.4	2.7	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	44.1
1989	1273	2,3,4	0.0	0.0	0.0	0.3	1.2	1.2	0.0	0.0	0.2	0.0	0.0	12.5	11.8	0.9	0.0	0.0	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.3	65.8
1990	266	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	2.3	1.5	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	15.0	14.7	0.0	0.0	0.0	1.9	59.0
1991	1356	2,3,4,5	0.1	0.4	0.0	0.0	0.2	4.0	0.0	0.1	0.0	0.0	0.2	0.7	5.2	0.8	0.0	0.0	0.2	0.0	0.1	1.5	0.0	0.0	0.0	13.1	8.2	0.0	0.0	0.0	0.9	64.2
1992	534	2,3,4,5	0.0	0.0	0.0	5.4	0.0	5.2	0.0	2.6	0.0	0.0	0.0	0.9	7.9	5.2	0.0	0.6	0.0	0.0	0.0	6.2	0.0	0.0	0.0	6.6	7.7	0.0	0.0	0.0	0.4	51.3
1993	1201	2,3,4,5	0.0	0.0	0.0	3.2	0.0	5.7	1.2	0.0	0.2	0.0	0.0	1.2	5.8	1.9	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	9.7	5.4	0.0	0.0	0.0	0.0	63.4
1994	2055	2,3,4,5	0.0	0.0	0.0	0.2	0.0	3.6	0.4	0.0	0.2	0.0	0.0	0.0	3.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	8.0	0.0	0.0	0.0	0.2	82.4
1995	1867	2,3,4,5	0.0	0.0	0.0	0.2	0.6	1.3	0.5	0.0	0.0	0.0	0.0	1.5	2.9	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	3.4	3.6	0.0	0.0	0.0	0.0	85.5
1996	72	2,3,4,5	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0	0.0	0.0	0.0	0.0	77.8
1997	258	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	11.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	1.6	5.4	0.0	0.0	0.0	0.0	62.4
1998	399	2,3,4,5	0.0	0.0	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.5	17.8	0.0	0.0	0.0	0.0	63.2
1999	2422	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	2.2	0.0	0.0	0.0	0.0	89.4
2000	1708	2,3,4,5	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0	5.5	0.0	0.0	0.0	0.0	80.0
2001	2140	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	4.6	0.0	0.0	0.0	0.0	83.1
2002	2148	2,3,4,5	0.0	0.0	0.0	1.3	0.3	0.7	0.0	0.0	0.2	0.0	0.0	0.0	1.1	0.7	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	2.7	0.0	0.0	0.0	0.0	88.5
2003	1778	2,3,4,5	0.1	0.0	0.0	2.4	0.0	0.9	0.6	0.0	0.0	0.0	0.0	0.0	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	6.9	0.0	0.0	0.0	0.0	85.5
2004	439	2,3,4,5	0.0	0.0	0.0	2.3	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0	0.0	0.0	0.0	67.7
2005	396	2,3,4,5	0.0	0.0	0.0	1.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	15.4	0.0	0.0	0.0	0.0	60.6
2006	418	2,3,4,5	0.0	0.0	0.0	1.7	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.5	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	10.8	9.8	0.0	0.0	0.0	0.0	71.8
2007	142	2,3,4,5	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	23.9	0.0	0.0	0.0	0.0	43.7
2008	607	2,3,4,5	0.0	0.0	0.0	1.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	2.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	3.6	0.0	0.5	0.0	0.0	78.1
2009	270	2,3,4,5	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	3.3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	15.2	21.9	0.0	0.0	0.0	0.0	49.3
2010	2309	2,3,4,5	0.3	0.0	0.0	1.3	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	90.9
2011	677	2,3,4,5	0.0	0.0	0.0	0.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.4	4.0	2.1	0.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	3.8	2.5	0.0	0.0	0.0	0.0	84.5
2012	714	2,3,4,5	0.0	0.0	0.0	0.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.8	7.7	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.8	0.0	0.0	0.0	0.0	68.1
2013	1454	2,3,4,5	0.0	0.0	0.0	1.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.5	4.4	3.1	0.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	87.8
2014	435	3,4,5	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	1.6	0.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.9	0.0	0.0	0.0	0.0	83.9
2015	1508	4,5	0.0	0.0	0.0	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.9	2.8	0.7	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	10.1	0.0	0.0	0.0	0.0	0.0	84.2
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	1222		0.0	0.1	0.0	1.3	0.3	3.3	0.3	0.4	0.1	0.0	0.0	2.4	5.6	1.6	0.0	0.1	0.0	0.0	0.2	2.3	0.0	0.0	0.0	7.0	7.2	0.0	0.0	0.0	0.5	67.4
96–98	328		0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.4	0.0	0.0	6.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	6.0	11.6	0.0	0.0	0.0	0.0	62.8
99–08	1220		0.0	0.0	0.0	1.0	0.3	1.6	0.1	0.0	0.0	0.0	0.0	0.0	3.0	0.8	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	10.8	7.5	0.0	0.0	0.0	0.0	74.8
09–15	976		0.1	0.0	0.0	0.6	0.1	0.3	0.1	0.0	0.0	0.0	0.0	0.5	3.9	3.1	0.1	0.1	0.0	0.0	0.0	0.7	0.0	0.0	0.0	8.6	4.4	0.0	0.0	0.0	0.0	77.4

Appendix C. 24– Percent distribution of Nisqually Fall Fingerling total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			Stray	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	26	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	91	2,3	0.0	0.0	0.0	1.1	0.0	6.6	3.3	0.0	0.0	0.0	8.8	0.0	13.2	2.2	0.0	0.0	0.0	0.0	0.0	35.2	0.0	0.0	0.0	0.0	0.0	0.0	29.7	0.0	0.0	0.0
1983	282	2,3,4	0.0	0.0	0.0	1.8	0.0	13.5	0.0	0.0	0.0	0.0	1.8	5.0	7.4	3.2	0.0	0.0	0.0	0.0	6.4	58.5	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	1.1
1984	230	2,3,4,5	0.0	0.0	0.0	0.0	0.0	32.2	0.0	0.0	0.0	0.0	0.0	2.2	1.3	0.0	0.0	1.3	0.0	0.0	13.9	25.2	0.0	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.4	4.8
1985	72	2,3,4,5	0.0	0.0	0.0	0.0	0.0	30.6	4.2	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	6.9	0.0	4.2	13.9	22.2	0.0	0.0	0.0	0.0	0.0	0.0	9.7	0.0	0.0	4.2
1986	125	2,3,4,5	0.0	0.0	0.0	0.0	0.0	16.0	0.0	0.0	0.0	0.0	0.0	1.6	12.8	0.0	0.0	0.0	0.0	0.0	11.2	19.2	0.0	0.0	0.0	0.0	0.0	0.0	21.6	0.0	0.0	17.6
1987	173	2,3,4,5	0.0	0.0	0.0	0.0	0.0	13.9	0.0	2.3	1.2	0.0	1.2	0.6	12.1	3.5	0.0	2.3	0.0	0.6	0.6	19.7	0.0	0.0	0.0	0.0	0.0	0.0	28.9	2.3	0.0	11.0
1988	451	2,3,4,5	0.0	0.0	0.0	0.9	0.0	4.9	0.0	1.8	0.7	0.0	3.1	3.1	33.5	6.9	0.0	0.0	0.0	0.0	4.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	18.4
1989	1120	2,3,4,5	0.0	0.0	0.0	0.4	0.0	5.4	5.8	0.0	0.6	0.0	0.0	3.3	2.9	15.1	0.2	0.0	0.3	2.1	9.6	19.0	0.0	0.0	0.0	0.0	0.0	0.0	27.4	0.4	0.0	7.4
1990	1374	2,3,4,5	0.0	0.0	0.0	0.0	0.0	23.6	5.5	0.2	0.0	0.0	0.0	0.1	3.5	10.6	0.1	0.0	0.0	0.0	2.0	13.1	0.0	0.0	0.0	0.0	0.0	0.0	33.6	0.0	0.0	7.7
1991	276	2,3,4,5	0.0	0.0	0.0	2.2	0.0	8.7	1.8	0.0	0.0	0.0	0.0	2.2	2.9	17.0	0.7	0.0	0.0	0.0	2.5	25.7	0.0	0.0	0.0	0.0	0.0	0.0	17.8	2.5	0.0	15.9
1992	486	2,3,4,5	0.0	0.0	0.0	0.0	0.0	7.4	3.9	0.0	0.2	0.0	0.0	2.3	5.3	6.6	0.0	0.4	0.0	0.0	7.6	28.6	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	31.1
1993	664	2,3,4,5	0.0	0.0	0.0	0.0	0.0	14.9	1.8	0.0	0.9	0.0	0.3	2.0	4.1	3.0	0.8	0.0	0.0	0.0	2.0	21.5	0.0	0.0	0.0	0.0	0.0	0.0	18.1	0.0	0.8	30.0
1994	1337	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.1	0.4	0.0	0.1	0.0	0.0	2.6	2.4	0.7	0.0	0.0	0.0	0.0	3.1	37.5	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.3	0.0	35.0
1995	1959	2,3,4,5	0.0	0.0	0.0	0.0	0.4	8.1	3.1	0.0	0.4	0.0	0.0	0.2	2.0	2.1	0.0	0.4	0.0	0.0	0.6	28.5	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	0.1	26.2
1996	1091	2,3,4,5	0.2	0.0	0.0	0.0	0.0	0.5	1.2	0.0	1.0	0.0	0.0	0.0	3.5	1.0	0.0	0.5	0.0	0.0	1.4	25.6	0.0	0.0	0.0	0.0	3.4	0.0	35.7	0.0	0.0	25.9
1997	714	2,3,4,5	0.0	0.4	0.0	0.0	0.0	3.4	2.5	0.0	0.3	0.0	0.0	0.3	3.2	0.4	0.8	0.3	0.0	0.0	0.3	30.1	0.0	0.0	0.0	0.0	0.0	0.0	16.1	1.1	0.0	40.8
1998	1313	2,3,4,5	0.2	0.0	0.0	0.0	0.0	0.3	0.7	0.0	0.0	0.4	0.0	0.0	1.4	0.5	0.0	0.0	0.0	0.0	0.4	25.5	0.0	0.0	0.0	0.0	0.0	0.0	30.1	0.6	0.0	40.0
1999	1611	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.4	2.4	0.0	0.0	0.0	0.0	0.0	3.7	3.0	0.3	0.2	0.0	0.0	1.1	24.4	0.0	0.0	0.0	0.0	0.0	0.0	39.2	0.0	0.0	25.5
2000	710	2,3,4,5	0.0	0.0	0.0	0.0	0.0	13.8	3.1	0.0	0.0	0.0	0.0	0.0	2.8	1.1	1.5	0.4	0.0	0.0	2.1	28.5	0.0	0.0	0.0	0.0	0.0	0.0	35.2	0.0	0.1	11.3
2001	1146	2,3,4,5	0.2	0.0	0.0	0.0	0.0	3.1	2.8	0.0	0.0	0.0	0.0	0.0	1.4	3.5	0.4	1.0	0.0	0.0	0.3	26.8	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.0	0.0	35.9
2002	1470	2,3,4,5	0.0	0.0	0.0	0.0	0.0	6.7	3.6	0.0	0.0	0.0	0.0	0.0	1.0	2.9	0.5	0.7	0.0	0.0	0.1	12.9	0.0	0.0	0.0	0.0	0.0	0.0	38.6	3.1	0.0	29.7
2003	1697	2,3,4,5	0.1	0.0	0.0	0.0	0.0	5.2	1.0	0.0	0.0	0.5	0.0	0.0	2.0	3.9	0.0	0.8	0.0	0.0	0.4	15.6	0.0	0.0	0.0	0.0	0.0	0.0	40.7	1.7	0.0	28.0
2004	1775	2,3,4,5	0.0	0.1	0.0	0.0	0.0	5.9	1.2	0.0	0.0	0.0	0.0	0.0	1.2	6.4	0.7	1.1	0.0	0.0	0.6	13.2	0.0	0.0	0.0	0.0	0.0	0.0	28.7	0.0	0.1	40.8
2005	1307	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.7	2.1	0.0	0.3	0.0	0.0	0.0	3.6	3.7	2.0	0.5	0.0	0.0	0.5	13.7	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.0	58.7
2006	2967	2,3,4,5	0.1	0.0	0.0	0.0	0.0	6.5	1.5	0.0	0.0	0.0	0.0	0.0	2.2	5.8	0.4	0.2	0.0	0.0	0.5	9.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	0.0	37.0
2007	3201	2,3,4,5	0.0	0.0	0.0	0.1	0.0	10.1	1.1	0.0	0.0	0.0	0.0	0.0	1.3	4.9	0.3	0.1	0.0	0.0	0.7	14.5	0.0	0.0	0.0	0.0	0.0	0.0	33.2	0.0	0.0	33.5
2008	1069	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.4	2.9	0.0	0.0	0.0	0.0	0.0	5.0	1.8	0.5	0.0	0.0	0.0	0.0	16.3	0.0	0.0	0.0	0.0	0.0	0.0	44.3	0.0	0.0	23.9
2009	1639	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.1	3.6	0.0	0.0	0.0	0.0	0.0	1.2	2.3	0.3	0.0	0.0	0.0	0.5	15.2	0.0	0.0	0.0	0.0	0.0	0.0	35.4	0.0	0.0	39.4
2010	1718	2,3,4,5	0.0	0.1	0.0	0.0	0.0	4.6	3.9	0.0	0.0	0.0	0.0	0.0	1.2	4.7	0.7	0.1	0.0	0.3	0.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0	32.7	3.3	0.0	38.7
2011	1453	2,3,4,5	0.0	0.0	0.0	0.3	0.0	2.9	3.2	0.0	0.0	0.0	0.0	0.0	0.8	3.2	0.6	0.6	0.0	0.0	1.3	14.2	0.0	0.0	0.0	0.0	0.0	0.0	17.4	3.9	0.0	51.5
2012	1485	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.7	1.8	0.0	0.0	0.0	0.0	0.0	2.3	5.7	1.1	0.3	0.0	0.0	0.5	13.5	0.0	0.0	0.0	0.0	0.0	0.0	15.6	13.3	0.0	44.1
2013	2206	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.3	1.8	0.0	0.0	0.0	0.0	0.0	2.9	3.2	0.2	0.2	0.0	0.0	1.2	10.4	0.0	0.0	0.0	0.0	0.0	0.0	19.9	4.4	0.0	53.4
2014	883	2,3,4,5	0.3	0.0	0.0	0.0	0.0	4.4	4.9	0.0	0.0	0.8	0.0	0.0	2.3	5.9	1.8	0.0	0.0	0.0	0.1	19.3	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	0.1	38.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	256		0.0	0.0	0.0	0.9	0.0	22.8	0.0	0.0	0.0	0.0	0.9	3.6	4.4	1.6	0.0	0.7	0.0	0.0	10.1	41.9	0.0	0.0	0.0	0.0	0.0	0.0	10.1	0.0	0.2	2.9
85–95	796		0.0	0.0	0.0	0.3	0.0	10.7	2.2	0.4	0.4	0.0	0.5	1.8	8.2	6.5	0.2	0.3	0.0	0.3	4.3	22.9	0.0	0.0	0.0	0.0	0.0	0.0	20.2	0.6	0.1	20.0
96–98	1039		0.1	0.1	0.0	0.0	0.0	1.4	1.5	0.0	0.4	0.1	0.0	0.1	2.7	0.6	0.3	0.3	0.0	0.0	0.7	27.1	0.0	0.0	0.0	0.0	1.1	0.0	27.3	0.6	0.0	35.6
99–08	1695		0.0	0.0	0.0	0.0	0.0	6.3	2.2	0.0	0.0	0.1	0.0	0.0	2.4	3.7	0.7	0.5	0.0	0.0	0.6	17.5	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.5	0.0	32.4
09–15	1564		0.1	0.0	0.0	0.1	0.0	3.0	3.2	0.0	0.0	0.1	0.0	0.0	1.8	4.2	0.8	0.2	0.0	0.1	0.6	13.7	0.0	0.0	0.0	0.0	0.0	0.0	23.8	4.2	0.0	44.2

[1] Estimates for this year can only be used for distribution of fishing mortalities because the escapement data are insufficient.

Appendix C. 25– Percent distribution of Nooksack Spring Yearling (Nooksack Spring Yearling) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	40	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	225	2,3	0.0	0.0	0.0	0.0	0.0	3.6	1.3	4.9	1.3	0.0	9.8	4.4	49.8	0.0	0.0	0.0	0.0	0.0	12.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.2
1985	194	3,4	6.7	0.0	0.0	0.0	0.0	12.9	2.1	0.0	0.0	0.0	0.0	2.6	30.4	0.0	2.1	0.0	0.0	0.0	5.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	27.8
1986	236	2,4,5	0.0	0.0	0.0	0.0	0.0	2.1	0.4	0.4	0.0	0.0	2.5	4.2	17.8	0.4	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.2
1987	555	3,5	0.0	0.0	0.0	0.0	0.0	0.9	1.8	0.2	0.7	0.0	4.3	2.2	61.4	0.2	0.0	0.0	0.0	0.0	4.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	17.3
1988	560	2,4	0.0	0.0	0.0	0.0	0.0	9.5	0.0	1.3	0.0	0.0	6.1	1.8	32.9	1.4	0.7	0.0	0.0	0.0	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	31.8
1989	120	2,3,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	5.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	67.5
1990	83	2,3,4	0.0	0.0	0.0	0.0	0.0	8.4	1.2	1.2	2.4	0.0	0.0	6.0	38.6	1.2	0.0	0.0	0.0	0.0	0.0	24.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	14.5
1991	370	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.2	4.9	0.0	0.5	0.0	0.0	4.1	44.3	2.2	0.0	0.0	0.0	0.0	4.6	6.5	0.0	0.0	0.0	1.4	0.0	0.0	1.6	0.0	0.0	27.8
1992	1013	2,3,4,5	1.7	1.9	0.0	0.0	0.0	19.3	1.1	1.0	0.6	0.0	1.7	0.9	15.6	1.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	44.8
1993	643	3,4,5	0.0	0.0	0.0	0.0	0.0	4.8	4.8	0.0	0.5	0.0	3.3	4.5	19.1	0.8	0.0	0.0	0.0	0.0	3.9	12.9	0.0	0.0	0.0	1.1	0.0	0.0	1.2	0.0	0.0	43.1
1994	538	2,4,5	0.6	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	5.9	0.6	30.5	0.2	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	0.7	0.0	0.0	5.9	0.0	0.0	46.7
1995	181	2,3,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	29.3	0.0	0.0	0.0	0.0	0.0	2.8	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.2
1996	200	2,3,4	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.0	0.0	0.0	16.0	0.5	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	73.5
1997	129	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	20.9	0.0	0.0	0.0	0.0	0.0	3.1	21.7	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	51.2
1998	114	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.0	4.4	4.4	0.0	0.0	27.2	0.0	0.0	0.0	0.0	0.0	1.8	11.4	0.0	0.0	0.0	2.6	0.0	0.0	2.6	0.0	0.0	38.6
1999	178	3,4,5	0.0	0.0	0.0	0.0	0.0	2.8	1.7	0.0	0.0	0.0	0.0	0.0	30.3	3.4	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	54.5
2000	146	4,5	0.0	0.0	0.0	0.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.0	0.0	0.0	0.0	0.0	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.2
2001	31	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	443		0.3	0.3	0.0	0.0	0.0	4.8	1.6	0.2	0.2	0.0	1.9	2.1	23.8	0.6	0.0	0.0	0.0	0.0	2.3	8.4	0.0	0.0	0.0	0.5	0.0	0.0	2.4	0.0	0.0	50.5
96–98	164		0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.5	0.0	0.4	18.5	0.3	0.0	0.0	0.0	0.0	1.6	13.6	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.3	62.3
99–08	178		0.0	0.0	0.0	0.0	0.0	2.8	1.7	0.0	0.0	0.0	0.0	0.0	30.3	3.4	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	54.5
09–15	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix C. 26–Percent distribution of Nooksack Spring Fingerling (Nooksack Spring Yearling) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	10	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	189	2,3	0.0	0.0	0.0	3.7	0.0	18.5	1.1	0.0	3.7	0.0	3.2	7.9	18.5	4.8	0.0	0.0	0.0	0.0	5.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	27.5
1992	508	3,4	0.0	0.0	0.0	3.0	0.0	36.4	4.9	0.0	1.2	0.0	3.3	3.1	11.4	3.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	28.5
1993	367	4,5	0.0	0.0	0.0	0.0	0.0	10.1	2.7	0.8	0.0	0.0	0.5	0.0	8.2	1.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.9	72.2
1994	67	2,5	1.5	0.0	0.0	0.0	0.0	0.0	1.5	0.0	3.0	0.0	0.0	11.9	13.4	0.0	0.0	0.0	0.0	0.0	0.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	38.8
1995	475	2,3	1.7	0.0	0.0	0.0	0.0	1.1	2.7	0.0	15.2	0.2	0.0	1.5	15.4	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	46.3
1996	1091	2,3,4	3.4	0.0	0.2	0.0	0.0	1.1	3.8	0.0	5.6	0.8	0.0	0.4	18.3	0.7	0.0	0.0	0.0	0.0	0.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	55.5
1997	2049	2,3,4,5	4.2	0.4	0.8	0.2	0.0	2.2	2.8	0.8	0.3	0.0	0.0	0.9	10.5	0.5	0.0	0.0	0.0	0.0	0.2	6.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.8	67.5
1998	1518	2,3,4,5	8.7	0.2	0.0	0.0	0.0	1.9	3.6	0.0	0.2	0.0	0.0	0.0	3.4	0.2	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	1.6	79.1
1999	1649	2,3,4,5	2.0	0.2	0.0	0.0	0.0	2.4	5.3	0.0	0.0	0.7	0.0	0.0	5.1	1.5	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.7
2000	927	2,3,4,5	5.2	0.2	0.0	0.0	0.0	20.8	3.7	0.0	0.0	0.0	0.0	0.0	15.1	0.2	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.6	53.3
2001	1402	2,3,4,5	1.8	0.0	0.0	0.0	0.0	10.9	4.8	0.0	0.0	0.0	0.0	0.0	5.1	1.1	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	73.4
2002	1269	2,3,4,5	6.1	0.0	0.5	0.9	0.0	17.1	2.4	0.0	0.0	1.3	0.0	0.0	1.5	0.2	0.5	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	3.4	65.2
2003	771	2,3,4,5	3.6	0.0	0.0	0.0	0.0	13.7	3.0	0.0	0.0	0.6	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.1	67.4
2004	682	2,3,4,5	1.3	0.0	0.0	0.3	0.0	32.1	5.4	0.0	0.0	0.0	0.0	0.0	9.7	3.1	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.3	45.6
2005	851	2,3,4,5	3.8	0.1	0.0	0.2	0.0	32.9	4.6	0.0	0.5	0.0	0.0	0.0	7.8	0.5	0.2	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.1	46.5
2006	549	2,3,4,5	2.4	0.0	0.5	1.1	0.0	32.8	4.9	0.0	0.0	0.0	0.0	0.0	9.8	1.1	0.0	0.0	0.0	0.0	0.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.5	0.5	40.6
2007	586	2,3,4,5	5.8	0.2	0.5	0.3	0.0	24.7	8.9	0.0	0.2	0.0	0.0	0.0	9.4	0.3	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.3	0.2	42.5
2008	1042	2,3,4,5	1.5	0.2	0.0	0.4	0.0	20.3	11.9	0.0	0.0	0.0	0.0	0.0	15.5	1.3	0.5	0.0	0.0	0.0	0.0	7.3	0.3	0.0	0.0	0.0	0.0	0.0	2.0	0.2	0.0	38.5
2009	799	2,3,4,5	3.0	0.6	0.0	0.0	0.0	7.8	6.3	0.0	0.0	0.0	0.0	0.0	19.1	0.9	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4	55.9
2010	844	2,3,4,5	3.4	0.4	0.0	0.7	0.0	21.7	8.9	0.0	0.0	0.4	0.0	0.0	5.3	2.5	0.5	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	52.0
2011	494	2,3,4,5	3.4	0.0	0.0	0.0	0.0	16.4	5.9	0.0	0.4	0.8	0.0	0.0	14.0	1.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.2	51.0
2012	454	2,3,4,5	5.1	0.9	0.7	0.0	0.0	15.2	6.2	0.0	0.0	0.0	0.0	1.8	13.4	4.2	0.0	0.0	0.0	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	4.0	0.0	1.5	35.5
2013	917	2,3,4,5	1.2	2.0	0.7	0.0	0.0	6.2	9.4	0.0	0.0	1.3	0.0	0.0	14.6	1.9	0.7	0.0	0.0	0.0	0.0	6.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.3	54.1
2014	1375	2,3,4,5	4.9	0.9	0.0	0.3	0.1	9.7	8.7	0.0	0.0	3.3	0.0	0.0	20.4	2.4	1.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.1	35.9
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	1553		5.4	0.2	0.3	0.1	0.0	1.7	3.4	0.3	2.0	0.3	0.0	0.4	10.7	0.5	0.0	0.0	0.0	0.0	0.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.9	67.3
99–08	973		3.4	0.1	0.2	0.3	0.0	20.8	5.5	0.0	0.1	0.3	0.0	0.0	8.6	0.9	0.1	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.7	55.5
09–15	814		3.5	0.8	0.2	0.2	0.0	12.8	7.5	0.0	0.1	1.0	0.0	0.3	14.5	2.1	0.4	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.6	47.4

Appendix C. 27–Percent distribution of Phillips River Fall (Upper Strait of Georgia) AEQ total fishing mortalities and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	19	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	32	2,3	28.1	9.4	6.3	0.0	3.1	0.0	0.0	0.0	0.0	12.5	0.0	0.0	18.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9
2013	463	2,3,4	6.7	6.7	3.0	0.0	1.1	0.0	0.0	0.0	0.0	3.9	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.2
2014	1023	2,3,4,5	11.5	3.1	2.1	0.8	1.3	0.4	0.0	0.1	0.1	8.5	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.0
2015	1555	2,3,4,5	12.2	0.9	2.2	0.0	0.6	0.0	0.0	0.0	0.0	5.4	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.5
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09–15	1014		10.1	3.6	2.4	0.3	1.0	0.1	0.0	0.0	0.0	5.9	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.3

Appendix C. 28– Percent distribution of Puntledge River Summer (Lower Strait of Georgia Hatchery) AEQ total fishing mortalities and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	1580	2,3,4	1.8	0.3	0.3	2.7	0.0	1.1	0.0	8.4	6.3	0.0	19.4	6.2	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.4
1980	919	2,3,4,5	2.3	0.0	0.4	2.0	0.0	4.8	0.0	5.8	4.2	0.0	14.7	5.4	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.5
1981	589	2,3,4,5	0.8	0.0	0.0	4.9	0.0	0.0	0.0	7.6	3.4	0.0	20.9	5.3	44.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9
1982	551	2,3,4,5	1.1	0.5	0.0	4.2	0.0	2.2	0.0	16.5	6.7	0.0	6.0	17.2	20.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.4
1983	536	2,3,4,5	1.9	0.2	0.0	8.4	0.0	2.8	0.0	17.2	5.0	0.6	12.5	2.8	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.1
1984	319	2,3,4,5	0.0	0.9	0.0	2.2	0.0	2.2	0.0	5.6	3.8	0.0	6.0	2.8	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	56.4
1985	155	2,3,4,5	12.3	0.6	3.2	6.5	0.0	0.0	0.0	1.3	7.7	3.2	0.0	5.2	37.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.6
1986	205	2,3,4,5	5.9	0.0	5.4	2.4	0.0	2.4	0.0	4.4	10.2	0.0	12.7	1.5	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9
1987	165	2,3,4,5	3.0	1.2	0.0	15.2	3.0	0.0	4.2	2.4	6.7	0.0	0.0	0.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.4
1988	104	2,3,4,5	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.0	1.0	36.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	45.2
1989	76	2,3,4,5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	39.5
1990	100	2,3,4,5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	11.0	0.0	0.0	5.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.0
1991	127	2,3,4,5	5.5	7.9	0.0	0.0	0.0	0.0	0.0	0.0	4.7	2.4	0.0	5.5	43.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.7
1992	101	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0	3.0	12.9	45.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.7
1993	82	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	4.9	0.0	0.0	59.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.0
1994	32	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.0	0.0	3.1	65.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
1995	46	2,3,4,5	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	2.2	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.0
1996	53	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	52.8
1997	27	3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.8
1998	9	2,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1
1999	51	2,3,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	17.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.4
2000	64	2,3,4	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.4
2001	214	2,3,4,5	2.8	0.5	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.7
2002	121	2,3,4,5	5.8	0.0	0.0	0.0	0.0	0.0	11.6	0.0	0.0	9.9	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.8
2003	124	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	74.2
2004	105	2,3,4,5	16.2	1.0	0.0	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.6
2005	333	2,3,4,5	1.5	0.0	0.0	1.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	27.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	69.4
2006	303	2,3,4,5	7.9	2.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.2
2007	432	2,3,4,5	11.6	8.3	1.6	0.7	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	71.3
2008	272	2,3,4,5	1.5	1.1	0.0	0.0	0.0	0.0	5.1	0.0	0.0	5.1	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	76.1
2009	611	2,3,4,5	5.2	1.8	0.2	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.6
2010	488	2,3,4,5	6.8	0.8	0.0	0.0	1.0	1.6	1.0	0.0	0.0	3.1	0.0	0.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3
2011	332	2,3,4,5	6.6	3.3	0.3	1.2	1.5	0.0	0.0	0.0	0.0	8.4	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.9
2012	109	2,3,4,5	23.9	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	4.6	0.0	0.0	49.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5
2013	260	2,3,4,5	0.0	1.5	0.0	1.5	0.8	0.0	0.0	0.0	0.0	2.3	0.0	0.0	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.8
2014	359	2,3,4,5	2.2	0.0	1.7	1.1	0.0	0.0	0.0	0.0	0.3	1.4	0.0	0.0	33.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.6
2015	236	3,4,5	8.9	0.0	0.0	0.0	2.1	1.3	0.0	0.0	0.0	4.2	0.0	0.0	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.7
79–84	749		1.3	0.3	0.1	4.1	0.0	2.2	0.0	10.2	4.9	0.1	13.2	6.6	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	33.0
85–95	175		7.0	0.6	2.9	8.0	1.0	0.8	1.4	2.7	8.2	1.1	4.2	2.2	31.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.3
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	257		4.4	1.7	0.2	0.4	0.0	0.5	2.4	0.0	0.2	2.2	0.0	0.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	75.5
09–15	381		5.0	1.2	0.4	0.8	1.0	0.5	0.2	0.0	0.0	3.2	0.0	0.0	21.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.1

Appendix C. 29– Percent distribution of Queets Fall Fingerling (Washington Coastal Wild) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			Stray	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	5	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	107	3,4	14.0	0.0	0.0	16.8	0.0	13.1	0.0	1.9	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	28.0	0.0	0.0	21.5
1982	236	3,4,5	15.7	1.3	0.0	18.6	0.0	12.7	0.0	0.0	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.3	0.0	0.0	23.7
1983	186	3,4,5,6	43.5	0.0	0.0	14.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.5	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.2	0.0	0.0	16.1
1984	148	3,4,5,6	16.9	0.7	0.0	20.9	2.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.7	0.0	0.0	22.3
1985	267	3,4,5,6	20.2	0.0	0.0	31.5	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.0	0.0	31.5
1986	321	3,4,5,6	23.7	0.0	1.9	12.1	0.0	6.9	0.0	1.6	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	44.5
1987	632	4,5,6	29.6	1.6	0.3	11.6	0.6	1.6	0.0	1.1	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.0	0.0	32.9
1988	778	3,5,6	16.7	1.3	1.7	8.7	0.1	5.0	0.0	2.3	0.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	43.7
1989	662	3,4,6	17.7	0.2	0.2	10.6	1.4	8.5	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.0	0.0	35.3
1990	1399	3,4,5	16.2	0.6	0.1	7.2	2.3	7.3	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	53.3
1991	1199	3,4,5,6	25.4	0.3	1.1	10.3	1.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	0.0	41.9
1992	757	3,4,5,6	13.7	5.3	2.4	8.5	1.8	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.0	34.7
1993	722	3,4,5,6	19.3	1.7	0.8	15.9	2.1	13.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	1.7	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0	30.2
1994	1272	3,4,5,6	24.4	1.2	0.4	22.6	1.3	4.1	0.5	0.2	0.3	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	0.0	26.7
1995	824	3,4,5,6	22.2	0.0	1.7	7.5	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.0	32.6
1996	803	3,4,5,6	18.8	0.0	1.9	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.6	0.0	0.0	62.4
1997	980	3,4,5,6	39.5	0.5	0.0	5.6	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.0	0.0	34.4
1998	673	3,4,5,6	26.0	0.0	3.3	19.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	35.1
1999	771	3,4,5,6	14.0	0.0	1.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	68.5
2000	743	3,4,5,6	18.3	0.0	10.6	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	59.5
2001	1287	3,4,5,6	11.4	0.0	3.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	68.0
2002	2297	3,4,5,6	23.2	0.0	3.2	4.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.7	0.0	11.4	37.9
2003	2561	3,4,5,6	14.7	0.0	2.5	7.5	3.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.2	58.7
2004	3591	3,4,5,6	13.7	0.6	2.8	5.9	6.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.1	60.1
2005	3115	3,4,5,6	14.8	0.0	3.1	6.6	2.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	0.0	0.1	53.0
2006	1577	3,4,5,6	19.1	0.1	2.0	9.9	2.0	2.9	0.4	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.8	49.7
2007	761	3,4,5,6	29.8	0.0	4.5	10.5	14.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	25.2
2008	1103	3,4,5,6	17.4	0.0	1.7	8.0	4.9	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.4	0.0	0.0	46.9
2009	1687	3,4,5,6	29.0	1.5	3.7	10.2	3.3	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1	0.0	0.3	33.7
2010	2722	3,4,5,6	20.7	0.0	4.9	4.2	4.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.0	50.4
2011	2875	3,4,5,6	24.3	0.2	4.4	6.4	4.7	0.1	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.0	39.8
2012	3838	3,4,5,6	30.2	0.2	2.3	6.8	5.1	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	38.7	0.0	0.3	14.3
2013	2076	3,4,5,6	16.4	0.7	6.8	7.2	5.6	0.5	0.9	0.0	0.0	3.9	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	23.8
2014	3313	3,4,5,6	18.3	0.8	2.5	5.4	2.3	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	16.6	0.0	0.0	52.6
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	190		25.4	0.6	0.0	17.9	0.7	8.3	0.0	0.0	0.1	0.4	0.0	0.7	0.0	1.1	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0	20.7
85–95	803		20.8	1.1	1.0	13.3	1.3	6.4	0.0	0.6	0.2	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	37.0
96–98	819		28.1	0.2	1.7	8.7	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	43.9
99–08	1781		17.6	0.1	3.6	7.1	3.7	0.8	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0	1.3	52.7
09–15	2752		23.1	0.6	4.1	6.7	4.3	0.3	0.5	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	23.2	0.0	0.1	35.8

Appendix C. 30– Percent distribution of Queets Fall Fingerling (Washington Coastal Wild) 5-age ERA output total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	2	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	12	2,3	16.7	0.0	0.0	33.3	0.0	16.7	0.0	16.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1981	108	2,3,4	12.0	0.0	0.0	16.7	0.0	12.0	0.0	1.9	1.9	0.0	0.0	0.9	0.0	0.0	0.0	1.9	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0	0.0	21.3
1982	237	2,3,4,5	15.2	1.7	0.0	19.0	0.0	12.7	0.0	0.0	0.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	0.0	0.0	23.6
1983	193	2,3,4,5,6	46.1	0.0	0.0	13.0	0.0	5.2	0.0	0.0	0.5	0.0	0.0	1.6	0.0	0.5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.6	0.0	0.0	15.5
1984	149	2,3,4,5,6	17.4	0.7	0.0	20.1	2.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	0.0	0.0	22.1
1985	286	2,3,4,5,6	20.3	0.0	0.0	32.2	0.0	2.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	29.4
1986	326	3,4,5,6	25.8	0.0	1.2	11.3	0.0	7.1	0.0	1.5	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	43.9
1987	615	2,4,5,6	28.0	1.8	0.0	11.7	1.0	1.5	0.0	0.8	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.0	0.0	33.8
1988	820	2,3,5,6	17.8	1.6	1.5	9.4	0.2	5.6	0.0	2.4	0.4	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	14.8	0.0	0.0	42.0
1989	654	2,3,4,6	16.5	0.2	0.2	10.7	1.1	8.9	0.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.0	0.0	35.8
1990	1358	2,3,4,5	15.2	0.6	0.1	6.3	2.4	7.1	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	0.0	0.0	54.9
1991	1195	2,3,4,5,6	24.4	0.3	1.1	10.1	1.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	14.5	0.0	0.0	42.7
1992	768	2,3,4,5,6	13.5	5.7	2.2	8.6	1.7	17.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	34.2
1993	707	2,3,4,5,6	19.1	2.3	0.6	15.0	1.8	13.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.4	1.8	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	30.8
1994	1215	2,3,4,5,6	23.3	1.2	0.4	21.3	1.5	4.0	0.5	0.2	0.3	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.5	0.0	0.0	28.0
1995	826	2,3,4,5,6	22.0	0.0	1.7	7.4	3.8	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.6	0.7	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.9	0.0	0.0	32.7
1996	794	2,3,4,5,6	18.3	0.0	1.4	0.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0	0.0	63.1
1997	941	2,3,4,5,6	37.4	0.5	0.0	5.4	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	35.8
1998	676	2,3,4,5,6	25.7	0.0	3.1	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	0.0	0.0	34.9
1999	824	2,3,4,5,6	13.2	0.0	1.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	0.0	0.0	69.9
2000	719	2,3,4,5,6	18.4	0.0	8.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	61.5
2001	1273	2,3,4,5,6	11.2	0.0	2.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	0.0	68.7
2002	2267	2,3,4,5,6	22.8	0.0	2.7	4.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	11.6	38.4
2003	2536	2,3,4,5,6	14.2	0.0	2.4	7.3	3.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.2	0.0	0.2	59.3
2004	3536	2,3,4,5,6	13.3	0.7	2.5	5.7	6.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	0.1	61.0
2005	3047	2,3,4,5,6	13.6	0.0	3.0	6.2	2.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.5	0.0	0.1	54.2
2006	1579	2,3,4,5,6	18.9	0.1	2.1	9.9	2.1	3.0	0.4	0.0	0.0	0.7	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.8	0.0	0.8	49.7
2007	763	2,3,4,5,6	30.5	0.0	3.9	10.5	14.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	25.2
2008	1091	2,3,4,5,6	17.2	0.0	1.3	8.0	4.8	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	0.0	0.0	47.4
2009	1648	2,3,4,5,6	28.0	1.6	3.3	10.0	3.4	0.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.0	0.3	34.5
2010	2705	2,3,4,5,6	20.7	0.0	4.4	4.3	4.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.2	0.0	0.0	50.8
2011	2790	2,3,4,5,6	23.6	0.1	3.6	6.2	4.7	0.1	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	41.0
2012	3722	2,3,4,5,6	28.6	0.1	2.2	6.5	5.5	0.6	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	39.9	0.0	0.3	14.7
2013	2029	2,3,4,5,6	17.2	0.8	5.0	7.5	5.2	0.5	0.9	0.0	0.0	3.5	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.1	0.0	0.0	24.3
2014	3157	3,4,5,6	15.8	0.7	2.2	4.7	2.5	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	17.4	0.0	0.0	55.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	193		26.3	0.8	0.0	17.4	0.7	8.6	0.0	0.0	0.3	0.4	0.0	0.5	0.0	0.8	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.4	0.0	0.0	20.4
85–95	797		20.5	1.2	0.8	13.1	1.3	6.6	0.0	0.6	0.2	0.0	0.0	0.2	0.2	0.1	0.2	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	0.0	37.1
96–98	804		27.1	0.2	1.5	8.6	0.0	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	0.0	0.0	44.6
99–08	1764		17.3	0.1	3.1	7.0	3.6	0.8	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4	0.0	1.3	53.5
09–15	2675		22.3	0.6	3.5	6.5	4.3	0.3	0.6	0.0	0.0	0.6	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.0	0.1	36.8

Appendix C. 31– Percent distribution of Quinsam River Fall (Upper Strait of Georgia) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	1667	2,3,4,5	5.6	4.2	0.8	5.9	0.0	0.0	0.0	11.0	18.9	2.5	2.5	4.2	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.1
1980	1684	2,3,4,5	14.5	4.6	3.3	10.8	0.0	0.0	0.0	16.9	12.9	4.1	1.3	8.4	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
1981	1724	2,3,4,5	11.5	4.2	1.7	13.2	0.0	0.5	0.0	12.3	10.3	4.2	2.1	6.3	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2
1982	1237	2,3,4,5	19.2	5.8	5.4	8.7	0.0	0.3	0.0	6.6	19.2	1.7	0.0	7.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3
1983	1349	2,3,4,5	25.1	1.1	0.3	14.4	0.0	0.7	0.0	11.5	16.2	1.5	0.2	7.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.9
1984	1272	2,3,4,5	16.7	4.3	5.7	6.1	0.0	0.8	0.0	5.0	14.7	2.0	0.9	6.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.9
1985	1779	2,3,4,5	28.8	8.1	4.4	5.0	0.0	0.1	0.0	3.5	10.6	0.6	0.0	7.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	26.9
1986	1959	2,3,4,5	15.2	9.4	3.1	6.6	0.0	0.0	0.0	7.2	18.1	1.5	0.2	5.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2
1987	1494	2,3,4,5	14.3	7.6	1.9	7.7	0.0	0.5	0.3	7.4	15.9	3.3	0.2	6.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	27.6
1988	1703	2,3,4,5	19.3	5.0	1.4	6.9	0.0	0.8	0.0	2.6	5.3	1.3	0.2	3.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	46.8
1989	1934	2,3,4,5	13.8	8.5	2.8	4.0	0.4	0.3	0.0	2.0	4.6	2.4	0.0	11.6	7.8	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.8
1990	1262	2,3,4,5	17.4	5.2	0.5	7.1	0.3	1.4	0.0	5.2	9.7	3.6	1.6	3.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	36.8
1991	848	2,3,4,5	10.7	5.3	1.5	6.4	0.0	0.6	0.0	10.3	9.9	6.6	0.7	3.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.9
1992	681	2,3,4,5	15.0	2.6	2.6	11.2	0.0	0.3	0.0	10.1	7.5	4.0	0.4	2.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3
1993	399	2,3,4,5	8.3	6.3	1.3	6.3	0.0	1.3	0.0	6.5	17.8	6.3	0.8	3.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.8
1994	567	2,3,4,5	2.8	48.3	2.5	6.2	0.0	0.0	0.0	0.7	7.8	1.4	0.0	2.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8
1995	288	2,3,4,5	8.0	8.0	0.0	11.8	2.4	0.0	0.0	0.0	17.4	2.1	0.0	2.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.2
1996	295	2,3,4,5	6.8	1.0	0.0	1.4	0.3	0.0	0.0	0.0	19.0	2.4	0.0	0.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.6
1997	467	2,3,4,5	10.7	4.5	3.2	3.6	1.1	0.4	1.9	2.6	2.6	2.6	0.0	1.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.4
1998	595	2,3,4,5	15.5	3.5	2.4	0.0	1.2	0.0	0.0	0.0	0.3	4.4	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	62.5
1999	1022	2,3,4,5	9.2	3.4	4.7	2.2	2.6	0.0	0.0	0.3	1.2	7.0	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9
2000	877	2,3,4,5	13.7	2.9	5.2	0.3	0.0	0.0	0.0	0.0	0.0	3.2	0.0	1.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.2
2001	1320	2,3,4,5	10.5	2.0	1.9	0.1	0.0	0.0	0.0	0.0	0.0	4.0	0.0	0.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.7
2002	998	2,3,4,5	14.9	2.7	0.9	0.5	0.0	0.0	0.0	0.1	0.0	7.3	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	67.2
2003	549	2,3,4,5	20.6	2.2	0.9	0.0	1.5	0.0	0.0	0.0	0.0	15.7	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.8
2004	814	2,3,4,5	7.7	19.5	1.7	0.2	0.0	0.0	0.0	0.0	2.3	11.4	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	52.9
2005	860	2,3,4,5	19.2	2.3	3.3	0.5	1.0	0.0	0.0	0.0	1.4	8.5	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.7
2006	850	2,3,4,5	17.2	4.9	1.3	0.7	4.4	0.0	0.0	0.0	0.0	2.7	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	62.8
2007	630	2,3,4,5	21.3	5.6	1.1	3.2	0.8	0.0	0.0	0.0	1.0	9.7	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
2008	406	2,3,4,5	12.6	2.2	0.2	0.7	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.9
2009	458	2,3,4,5	11.8	4.4	2.2	0.9	5.2	0.0	1.5	0.0	0.0	4.4	0.0	1.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6
2010	475	2,3,4,5	8.2	6.3	1.1	0.0	1.3	0.0	0.0	0.0	0.0	4.8	0.0	0.0	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	52.0
2011	755	2,3,4,5	10.9	8.1	0.7	0.0	2.1	0.0	0.0	0.0	0.0	12.7	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.7
2012	849	2,3,4,5	16.6	6.2	2.2	0.7	0.6	0.0	0.0	0.0	0.0	8.7	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.2
2013	707	2,3,4,5	11.2	6.4	1.0	0.4	0.7	0.0	0.0	0.0	0.0	5.7	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.4
2014	484	2,3,4,5	12.2	6.0	1.2	0.0	0.2	0.0	0.0	0.2	0.0	3.9	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	71.7
2015	828	2,3,4,5	10.3	5.9	1.2	0.0	0.5	0.0	0.5	0.0	0.0	6.3	0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	58.2
79–84	1489		15.5	4.0	2.9	9.8	0.0	0.4	0.0	10.5	15.3	2.7	1.2	6.6	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.7
85–95	1174		14.0	10.4	2.0	7.2	0.3	0.5	0.0	5.0	11.3	3.0	0.4	4.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7
96–98	452		11.0	3.0	1.9	1.7	0.9	0.1	0.6	0.9	7.3	3.1	0.0	0.7	12.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	56.5
99–08	833		14.7	4.8	2.1	0.8	1.0	0.0	0.0	0.0	0.6	7.7	0.0	0.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8
09–15	651		11.6	6.2	1.4	0.3	1.5	0.0	0.3	0.0	0.0	6.6	0.0	0.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	61.3

Appendix C. 32– Percent distribution of Quinsam River Fall (Upper Strait of Georgia) 5-age ERA output total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			Stra	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	168	2,3,4,5	6.4	4.2	1.	6.1	0.	0.	0.0	10.8	18.5	2.5	2.4	4.3	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.3
1980	171	2,3,4,5,	15.	4.5	3.	10.	0.	0.	0.0	16.6	12.9	4.0	1.5	8.4	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0
1981	171	2,3,4,5,	11.	4.2	1.	13.	0.	0.	0.0	12.4	10.3	4.3	2.1	6.3	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9
1982	125	2,3,4,5,	19.	5.7	5.	8.4	0.	0.	0.0	6.5	19.1	1.7	0.0	7.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.6
1983	133	2,3,4,5,	25.	1.1	0.	14.	0.	0.	0.0	11.5	16.5	1.5	0.2	7.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0
1984	128	2,3,4,5,	16.	4.4	5.	6.6	0.	0.	0.0	5.0	14.4	2.0	0.9	6.2	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.8
1985	178	2,3,4,5,	28.	8.1	4.	4.9	0.	0.	0.0	3.5	10.5	0.6	0.0	7.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	27.3
1986	190	2,3,4,5,	15.	9.7	3.	6.7	0.	0.	0.0	7.4	18.6	1.5	0.2	5.8	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5
1987	163	2,3,4,5,	15.	8.3	2.	7.0	0.	0.	0.3	6.9	14.7	3.3	0.2	6.2	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	28.2
1988	170	2,3,4,5,	19.	5.0	1.	6.9	0.	0.	0.0	2.6	5.3	1.3	0.2	3.8	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	46.9
1989	190	2,3,4,5,	13.	8.6	2.	4.0	0.	0.	0.0	2.0	4.7	2.4	0.0	11.8	7.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.2
1990	129	2,3,4,5,	16.	5.1	0.	6.8	0.	1.	0.0	5.0	9.7	3.5	1.5	4.1	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	37.6
1991	844	2,3,4,5,	10.	5.3	1.	6.4	0.	0.	0.0	10.3	10.0	6.6	0.7	3.3	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.6
1992	684	2,3,4,5,	15.	2.6	2.	11.	0.	0.	0.0	10.1	7.5	3.9	0.4	2.5	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.5
1993	395	2,3,4,5,	8.4	6.3	1.	6.3	0.	1.	0.0	6.6	18.0	6.1	0.8	3.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.4
1994	571	2,3,4,5,	3.2	48.	2.	6.1	0.	0.	0.0	0.7	7.7	1.4	0.0	2.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.0
1995	290	2,3,4,5,	7.9	7.9	0.	11.	2.	0.	0.0	0.0	17.2	2.1	0.0	2.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0
1996	294	2,3,4,5,	6.8	1.0	0.	1.4	0.	0.	0.0	0.0	19.0	2.4	0.0	0.3	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.5
1997	466	2,3,4,5,	10.	4.5	3.	3.6	1.	0.	1.9	2.6	2.6	2.6	0.0	1.7	16.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	48.3
1998	596	2,3,4,5,	15.	3.5	2.	0.0	1.	0.	0.0	0.0	0.3	4.4	0.0	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	62.6
1999	102	2,3,4,5,	9.2	3.4	4.	2.2	2.	0.	0.0	0.3	1.2	7.0	0.0	0.0	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.9
2000	876	2,3,4,5,	13.	2.9	5.	0.3	0.	0.	0.0	0.0	0.0	3.2	0.0	1.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.2
2001	131	2,3,4,5,	10.	2.0	1.	0.1	0.	0.	0.0	0.0	0.0	4.0	0.0	0.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	78.7
2002	100	2,3,4,5,	14.	3.2	0.	0.5	0.	0.	0.0	0.1	0.0	7.3	0.0	0.0	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	66.8
2003	551	2,3,4,5,	20.	2.2	0.	0.0	1.	0.	0.0	0.0	0.0	15.6	0.0	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.2
2004	816	2,3,4,5,	7.7	19.	1.	0.2	0.	0.	0.0	0.0	2.3	11.4	0.0	0.0	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	53.1
2005	857	2,3,4,5,	19.	2.3	3.	0.5	0.	0.	0.0	0.0	1.4	8.4	0.0	0.0	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.8
2006	842	2,3,4,5,	17.	5.0	1.	0.7	4.	0.	0.0	0.0	0.0	2.7	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	62.6
2007	639	2,3,4,5,	21.	5.5	1.	3.1	0.	0.	0.0	0.0	0.9	9.5	0.0	0.0	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.8
2008	414	2,3,4,5,	13.	2.2	0.	0.7	0.	0.	0.0	0.0	0.0	7.2	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.5
2009	458	2,3,4,5,	11.	4.4	2.	0.9	5.	0.	1.5	0.0	0.0	4.4	0.0	1.5	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6
2010	472	2,3,4,5,	8.3	6.4	1.	0.0	1.	0.	0.0	0.0	0.0	4.9	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	51.7
2011	763	2,3,4,5,	10.	8.7	0.	0.0	2.	0.	0.0	0.0	0.0	12.6	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.4
2012	840	2,3,4,5,	16.	6.3	2.	0.7	0.	0.	0.0	0.0	0.0	8.7	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.9
2013	709	2,3,4,5,	11.	6.3	1.	0.4	0.	0.	0.0	0.0	0.0	5.5	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.7
2014	494	2,3,4,5,	11.	6.9	1.	0.0	0.	0.	0.0	0.2	0.0	4.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	71.3
2015	830	2,3,4,5,	10.	5.7	1.	0.0	0.	0.	0.5	0.0	0.0	6.5	0.0	0.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	58.1
79–	149		15.	4.0	2.	9.9	0.	0.	0.0	10.5	15.3	2.7	1.2	6.7	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5
85–	118		14.	10.	2.	7.1	0.	0.	0.0	5.0	11.3	3.0	0.4	4.7	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7
96–	452		11.	3.0	1.	1.7	0.	0.	0.6	0.9	7.3	3.1	0.0	0.7	12.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	56.5
99–	834		14.	4.8	2.	0.8	1.	0.	0.0	0.0	0.6	7.6	0.0	0.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.8
09–	652		11.	6.4	1.	0.3	1.	0.	0.3	0.0	0.0	6.7	0.0	0.2	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	61.1

Appendix C. 33– Percent distribution of Robertson Creek Fall (WCVI Hatchery and Natural) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	5453	2,3,4,5	21.2	0.6	0.7	12.0	0.0	8.3	0.0	11.3	7.4	0.1	0.5	2.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.1	0.0	0.0	29.3
1980	5055	2,3,4,5	28.3	5.7	1.1	8.5	0.0	7.4	0.2	8.7	4.6	0.0	0.0	1.2	0.4	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	9.5	3.0	0.0	0.0	0.0	0.0	21.1
1981	3100	2,3,4,5	31.6	1.6	1.0	13.9	0.0	5.8	0.1	8.3	4.6	0.3	0.4	1.2	1.5	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	10.3	4.5	0.0	0.4	0.0	0.0	13.6
1982	4699	2,3,4,5	29.1	3.5	1.6	14.7	0.0	6.1	0.1	7.1	4.5	0.0	0.1	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0	0.0	12.6	5.8	0.0	0.1	0.0	0.0	11.8
1983	4090	2,3,4,5	41.4	2.7	0.4	11.1	0.0	5.6	0.0	7.9	2.3	0.0	0.0	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	4.7	0.0	0.1	0.0	0.0	7.8
1984	3298	2,3,4,5	29.9	4.1	0.1	13.7	0.0	6.7	0.0	3.9	2.7	0.0	0.0	0.8	1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	15.0	14.7	0.0	0.0	0.0	0.0	7.2
1985	1520	2,3,4,5	21.6	15.1	0.0	17.8	0.0	1.5	0.0	1.0	4.1	0.0	0.0	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.0	1.2	6.3	0.0	1.2	0.0	0.1	27.0
1986	783	2,3,4,5	18.4	9.6	0.6	9.5	0.9	7.2	0.0	1.0	3.8	0.0	0.0	0.8	1.4	0.0	0.0	0.0	0.0	0.0	0.3	1.9	0.0	0.0	0.0	0.4	15.7	0.0	0.0	0.0	0.0	28.6
1987	1625	2,3,4,5	10.3	3.2	1.0	7.4	0.0	2.6	0.2	3.4	2.3	0.0	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	19.9	0.0	0.0	0.0	0.1	47.4
1988	3155	2,3,4,5	11.3	4.4	1.3	7.6	1.0	4.9	1.1	1.4	1.8	0.0	0.0	0.2	4.8	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.0	6.5	13.2	0.0	0.0	0.0	0.1	40.0
1989	6595	2,3,4,5	10.1	7.6	0.4	9.6	0.5	2.5	1.1	1.7	1.1	0.1	0.0	0.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	16.5	16.4	0.0	0.0	0.0	0.0	30.0
1990	11154	2,3,4,5	19.0	2.3	2.0	9.1	0.8	6.2	0.8	2.3	1.5	0.1	0.0	0.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.4	8.1	0.0	0.0	0.0	0.0	38.6
1991	13830	2,3,4,5	19.4	2.4	3.2	9.7	0.5	4.9	0.6	2.6	0.7	0.3	0.0	1.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	13.4	12.8	0.0	0.0	0.0	0.0	26.9
1992	11348	2,3,4,5	15.3	15.7	1.6	6.8	0.9	17.1	0.8	2.8	0.7	0.3	0.0	0.5	1.2	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.2	5.0	0.0	0.0	0.0	0.0	30.9
1993	6708	2,3,4,5	16.0	2.1	2.4	7.7	0.8	14.7	0.8	2.1	0.4	0.2	0.0	0.7	2.4	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	6.8	12.3	0.0	0.0	0.0	0.0	30.3
1994	3789	2,3,4,5	17.8	6.3	3.9	9.2	0.4	4.9	1.7	1.2	0.9	0.2	0.0	0.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	11.2	15.7	0.0	0.0	0.0	0.0	23.4
1995	1510	2,3,4,5	15.0	0.0	4.2	3.0	1.9	1.5	0.8	0.3	0.4	0.0	0.0	0.1	3.7	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	5.8	7.8	0.0	0.1	0.0	0.3	54.9
1996	844	2,3,4,5	8.6	0.1	3.9	2.6	0.5	0.7	0.0	0.5	0.0	1.8	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	76.1
1997	2232	2,3,4,5	14.8	3.6	4.7	4.9	1.5	0.1	0.0	1.8	0.4	1.1	0.0	0.1	2.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	5.9	17.1	0.0	0.0	0.0	0.0	41.0
1998	3189	2,3,4,5	17.2	1.7	5.2	5.6	3.0	0.0	1.5	0.0	0.0	0.4	0.0	0.0	4.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	16.4	0.0	0.0	0.0	0.1	40.5
1999	1252	2,3,4,5	12.5	1.1	7.6	5.4	6.7	0.0	0.9	0.2	0.0	0.3	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	17.8	0.0	0.0	0.0	0.0	37.9
2000	236	2,3,4,5	6.8	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	81.8
2001	943	2,3,4,5	4.2	0.0	2.9	0.0	0.0	0.0	1.6	0.0	0.0	0.5	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	85.7
2002	2104	2,3,4,5	12.9	0.6	1.8	3.8	2.1	0.3	1.0	0.1	0.0	1.9	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9	15.0	0.0	0.0	0.0	0.0	50.9
2003	3018	2,3,4,5	14.4	2.2	3.5	0.8	1.6	0.0	0.0	0.0	0.0	2.9	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	15.5	0.0	0.0	0.0	0.0	48.5
2004	5006	2,3,4,5	13.4	8.2	2.9	2.7	1.5	0.1	0.6	0.0	0.0	2.9	0.0	0.0	3.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	13.3	0.0	0.0	0.0	0.3	39.7
2005	3142	2,3,4,5	15.5	2.0	4.3	3.2	4.6	0.0	1.1	0.0	0.0	5.4	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.9	6.1	0.0	0.0	0.0	0.1	23.5
2006	2807	2,3,4,5	11.6	2.6	2.7	2.6	3.1	0.0	1.9	0.0	0.0	1.9	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.2	10.5	0.0	0.0	0.0	0.0	33.8
2007	2263	2,3,4,5	16.6	3.4	3.7	5.3	5.5	0.1	1.3	0.0	0.0	1.3	0.0	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.7	11.9	0.0	0.0	0.0	0.0	20.4
2008	1603	2,3,4,5	10.0	0.4	1.6	2.6	2.6	0.0	0.8	0.0	0.0	2.9	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.2	12.8	0.0	0.0	0.0	0.0	43.6
2009	1430	2,3,4,5	13.2	7.1	2.9	2.2	6.2	0.0	1.1	0.0	0.0	5.2	0.0	0.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	12.3	0.0	0.0	0.0	0.0	37.6
2010	1366	2,3,4,5	7.7	0.2	4.0	3.1	4.7	0.7	2.0	0.0	0.0	2.7	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	3.0	0.0	0.1	0.0	0.0	62.7
2011	2368	2,3,4,5	13.9	2.0	1.5	3.5	3.5	0.2	3.9	0.0	0.0	3.5	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.1	0.0	0.0	16.9	16.1	0.0	0.0	0.0	0.0	30.2
2012	1881	2,3,4,5	14.0	3.8	1.2	3.0	2.7	0.2	2.1	0.0	0.0	3.7	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	16.4	0.0	0.1	0.0	0.0	32.4
2013	1398	2,3,4,5	11.0	3.9	1.5	1.1	1.9	0.0	1.1	0.0	0.0	2.5	0.0	0.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	65.5
2014	1738	2,3,4,5	20.1	2.8	6.7	2.6	2.2	1.0	6.3	0.1	0.0	2.0	0.1	0.0	7.5	0.0	0.2	0.0	0.0	0.0	0.0	1.8	0.2	0.0	0.0	0.2	6.7	0.0	0.0	0.0	0.1	39.5
2015	4907	2,3,4,5	2.9	2.6	1.4	0.3	2.2	0.1	2.3	0.0	0.1	1.5	0.0	0.0	6.1	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	6.4	0.0	0.0	0.0	0.2	68.2
79–84	4282		30.2	3.0	0.8	12.3	0.0	6.6	0.1	7.9	4.4	0.1	0.2	1.2	0.9	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	10.4	6.3	0.0	0.1	0.0	0.0	15.1
85–95	5638		15.8	6.2	1.9	8.9	0.7	6.2	0.7	1.8	1.6	0.1	0.0	0.8	2.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	6.3	12.1	0.0	0.1	0.0	0.1	34.4
96–98	2088		13.6	1.8	4.6	4.4	1.7	0.3	0.5	0.8	0.1	1.1	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	11.9	0.0	0.0	0.0	0.0	52.5
99–08	2237		11.8	2.0	3.1	2.6	3.3	0.1	0.9	0.0	0.0	2.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	10.5	0.0	0.0	0.0	0.0	46.6
09–15	2155		11.8	3.2	2.7	2.3	3.4	0.3	2.7	0.0	0.0	3.0	0.0	0.0	6.1	0.0	0.1	0.0	0.0	0.0	0.1	0.3	0.0	0.0	0.0	6.9	9.0	0.0	0.0	0.0	0.0	48.0

Appendix C. 34– Percent distribution of Samish Fall Fingerling (Nooksack Fall Fingerling) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	1950	4,5	0.5	0.0	0.1	0.0	0.0	22.7	0.0	0.1	1.1	0.0	1.9	0.8	6.8	1.6	0.2	0.1	0.0	0.1	5.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	52.3	0.0	0.0	0.8
1980	83	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	1508	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	5256	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	6332	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	373	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	73	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	931	2,3	0.0	0.0	0.0	0.2	0.0	13.0	0.3	0.3	0.9	0.1	1.2	3.8	22.4	6.3	0.0	0.0	0.0	0.2	8.9	12.1	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.0	1.2	13.2
1989	2017	2,3,4	0.0	0.0	0.0	0.2	0.0	9.1	1.7	0.2	0.1	0.2	1.3	3.2	17.9	8.0	0.0	0.0	0.0	0.0	4.3	11.3	0.0	0.0	0.0	0.0	0.0	0.0	27.4	0.0	0.5	14.4
1990	2535	2,3,4,5	0.2	0.0	0.0	0.6	0.0	20.3	1.9	0.1	0.2	0.0	3.5	1.3	10.7	9.2	0.1	0.2	0.0	0.0	1.5	8.0	0.0	0.0	0.0	0.0	0.0	0.0	25.8	0.0	2.1	14.4
1991	1039	2,3,4,5	0.0	0.0	0.0	0.0	0.0	14.3	3.4	0.1	0.3	0.0	1.9	2.5	10.4	8.9	1.4	0.4	0.0	0.0	0.9	10.1	0.0	0.0	0.0	0.0	0.0	0.0	20.1	0.4	0.9	24.1
1992	737	2,3,4,5	0.0	0.0	0.0	0.0	0.0	11.3	0.8	0.0	0.1	0.0	2.4	1.8	16.8	9.2	1.1	0.4	0.0	0.0	0.1	22.4	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	21.4
1993	1225	2,3,4,5	0.0	0.0	0.0	0.2	0.0	13.7	7.3	0.2	0.5	0.0	3.7	2.0	20.2	3.8	0.1	0.2	0.0	0.0	2.0	13.4	0.0	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.7	20.0
1994	1037	2,3,4,5	0.5	0.0	0.0	0.4	0.0	13.1	3.4	0.0	0.4	0.0	1.3	1.6	16.6	2.0	0.4	0.0	0.0	0.0	3.1	4.1	0.0	0.0	0.0	0.4	0.0	0.0	31.7	0.0	2.0	19.0
1995	810	2,3,4,5	0.2	0.0	0.0	0.0	0.0	7.3	2.6	0.0	0.9	0.0	0.0	0.7	6.5	3.1	2.1	0.0	0.0	0.0	3.5	20.7	0.0	0.0	0.0	0.0	0.0	0.0	19.5	0.0	0.1	32.7
1996	1290	2,3,4,5	0.0	0.1	0.0	0.0	0.0	1.0	0.8	0.0	0.3	0.0	0.0	0.2	13.6	1.6	13.7	0.0	0.0	0.2	0.3	15.0	0.0	0.0	0.0	0.0	0.2	0.0	28.8	0.0	0.0	24.2
1997	1369	2,3,4,5	0.7	0.1	0.0	0.2	0.0	2.6	1.8	0.7	0.8	0.1	0.0	0.4	9.3	0.9	0.4	0.0	0.0	0.0	1.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	30.6	0.0	0.0	37.7
1998	725	2,3,4,5	3.6	0.0	0.0	0.0	0.0	1.7	0.7	0.0	0.0	0.0	0.0	0.0	14.3	0.6	0.6	0.1	0.0	0.0	0.3	4.8	0.0	0.0	0.0	0.0	0.0	0.0	41.7	0.0	0.3	31.4
1999	274	2,3,4,5	4.0	0.0	0.0	1.8	0.0	1.5	10.2	0.0	0.0	3.3	0.0	0.0	14.6	1.5	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	34.7	0.0	0.0	22.6
2000	337	2,3,4,5	0.0	0.0	0.0	0.0	0.0	11.3	8.6	0.0	0.0	0.0	0.0	0.0	18.1	0.3	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	29.4	0.0	0.0	25.8
2001	1690	2,3,4,5	0.0	0.2	0.0	0.0	0.0	5.1	4.9	0.0	0.5	0.0	0.0	0.0	9.8	2.4	0.1	0.2	0.0	0.2	0.1	8.2	0.0	0.0	0.0	0.0	0.7	0.0	35.4	0.0	0.2	32.0
2002	1604	2,3,4,5	0.9	0.0	0.0	0.7	0.0	8.2	6.0	0.0	0.0	0.0	0.0	0.0	8.9	2.7	0.6	0.3	0.0	0.0	0.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	35.1	0.0	0.4	30.0
2003	763	2,3,4,5	0.8	0.0	0.0	0.0	0.0	13.4	3.1	0.0	0.0	0.0	0.0	0.3	6.2	6.8	0.5	0.0	0.0	0.0	0.5	3.1	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	0.0	28.4
2004	550	2,3,4,5	0.4	0.0	0.0	0.0	0.0	7.8	6.0	0.0	0.0	0.0	0.0	0.0	6.0	11.1	0.4	0.5	0.0	0.0	0.7	9.5	0.0	0.0	0.0	0.0	0.0	0.0	27.8	0.0	0.7	29.1
2005	758	2,3,4,5	0.3	0.1	0.0	0.3	0.0	10.7	8.0	0.0	0.0	0.0	0.0	0.0	17.4	7.3	0.7	0.3	0.0	0.0	0.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0	28.5	0.0	1.1	17.9
2006	1563	2,3,4,5	0.4	0.1	0.0	0.1	0.0	8.1	4.7	0.0	0.0	0.0	0.0	0.0	7.0	6.8	1.3	0.1	0.0	0.0	0.8	7.4	0.0	0.0	0.0	0.0	0.0	0.0	46.7	0.0	2.7	13.8
2007	2037	2,3,4,5	0.5	0.0	0.0	0.0	0.0	9.5	4.4	0.0	0.0	0.0	0.0	0.0	7.1	2.9	20.3	0.0	0.1	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0	27.4	0.1	0.8	20.2
2008	1739	2,3,4,5	0.2	0.0	0.0	0.0	0.0	6.2	4.1	0.0	0.0	0.0	0.0	0.0	7.1	4.5	0.3	0.0	0.0	0.0	0.1	11.6	0.0	0.0	0.0	0.0	0.0	0.0	40.4	0.0	0.6	24.8
2009	1656	2,3,4,5	0.0	0.1	0.0	0.0	0.0	3.3	4.2	0.0	0.0	0.0	0.0	0.0	5.4	3.5	0.4	0.0	0.0	0.0	0.1	14.1	0.0	0.0	0.0	0.0	0.0	0.0	30.3	0.0	0.7	38.1
2010	1829	2,3,4,5	0.0	0.0	0.1	0.0	0.0	7.0	6.7	0.0	0.0	0.0	0.0	0.0	5.9	10.1	0.7	0.3	0.0	0.0	0.2	9.3	0.0	0.0	0.0	0.0	0.0	0.0	29.3	0.0	2.8	27.8
2011	1323	2,3,4,5	0.1	0.0	0.0	0.0	0.0	5.0	5.2	0.0	0.0	0.0	0.0	0.0	10.0	3.2	0.3	0.0	0.0	0.0	0.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0	35.6	0.0	0.3	31.6
2012	1837	2,3,4,5	0.0	0.2	0.1	0.5	0.0	2.2	4.5	0.0	0.0	0.2	0.0	0.4	6.8	6.6	1.0	0.3	0.0	0.0	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	51.8	0.0	0.2	18.5
2013	1815	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.2	3.6	0.0	0.0	0.0	0.0	0.0	8.1	3.5	0.2	0.0	0.0	0.0	3.4	10.9	0.0	0.0	0.0	0.0	0.0	0.0	42.3	0.0	0.4	26.5
2014	1594	2,3,4,5	0.6	0.1	0.0	0.4	0.1	5.7	4.7	0.0	0.0	0.0	0.0	0.0	10.6	5.8	0.9	0.4	0.0	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	24.2	0.0	0.4	32.9
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	1343		0.1	0.0	0.0	0.2	0.0	12.7	3.0	0.1	0.4	0.0	2.0	1.9	14.2	6.3	0.7	0.2	0.0	0.0	2.2	12.9	0.0	0.0	0.0	0.1	0.0	0.0	21.3	0.1	0.9	20.9
96–98	1128		1.4	0.1	0.0	0.1	0.0	1.8	1.1	0.2	0.4	0.0	0.0	0.2	12.4	1.0	4.9	0.0	0.0	0.1	0.8	10.5	0.0	0.0	0.0	0.0	0.1	0.0	33.7	0.0	0.1	31.1
99–08	1132		0.8	0.0	0.0	0.3	0.0	8.2	6.0	0.0	0.1	0.3	0.0	0.0	10.2	4.6	2.4	0.1	0.0	0.0	0.3	7.2	0.0	0.0	0.0	0.0	0.1	0.0	34.2	0.0	0.6	24.5
09–15	1676		0.1	0.1	0.0	0.2	0.0	4.1	4.8	0.0	0.0	0.0	0.0	0.1	7.8	5.4	0.6	0.2	0.0	0.0	0.6	10.4	0.0	0.0	0.0	0.0	0.0	0.0	35.6	0.0	0.8	29.2

Appendix C. 35– Percent distribution of Lower Shuswap River Summer (Fraser Early) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery														Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			Stray	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	112	2	Failed Criteria							2.7	0.8	0.6	0.8	8.2	4.6	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.8	7.3	0.0	0.0	0.0	0.3	47.0
1987	632	2,3	7.8	2.2	0.2	11.7	0.0	2.2	0.0	1.6	1.4	0.0	0.0	6.3	2.8	0.0	0.1	0.0	0.0	0.1	1.2	0.2	0.0	0.0	0.0	0.9	1.4	0.0	0.3	0.0	0.2	60.5
1988	2072	2,3,4	7.7	0.2	0.0	9.7	0.3	5.1	0.0	0.5	0.2	0.0	0.0	12.3	0.4	0.0	0.0	0.0	0.0	0.0	0.9	0.1	0.0	0.0	0.0	1.1	0.4	0.0	0.5	0.0	0.0	66.0
1989	1682	2,3,4,5	5.1	4.0	0.0	7.2	0.0	1.1	0.0	1.8	1.1	0.9	0.0	2.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	7.6	1.5	0.0	0.0	0.0	1.1	26.7
1990	1250	2,3,4,5	27.7	0.0	0.8	19.4	0.3	3.8	3.0	1.3	1.3	0.0	0.0	5.4	1.3	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	0.0	0.0	5.3	0.6	0.0	0.0	0.0	0.2	21.3
1991	628	2,3,4,5	33.9	0.0	0.6	22.1	0.5	3.0	0.0	6.0	1.4	0.0	0.0	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	5.3	4.6	0.0	0.0	0.0	0.0	36.5
1992	285	2,3,4,5	12.6	0.0	0.0	17.2	0.0	3.9	0.0	1.1	0.9	0.0	0.0	7.5	1.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.0	0.0	8.8	3.7	0.0	0.0	0.0	0.0	41.8
1993	464	2,3,4,5	6.0	1.7	0.0	12.5	0.0	9.5	0.0	10.0	0.9	0.0	0.9	4.3	1.8	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.5	31.2
1994	1045	2,3,4,5	9.4	0.0	1.1	17.4	1.7	8.1	0.0	0.8	0.2	1.5	0.0	3.4	2.6	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	7.9	0.4	0.0	0.8	0.0	0.6	40.9
1995	530	2,3,4,5	15.8	0.0	3.8	11.3	4.2	3.4	0.0	0.0	0.1	1.5	0.0	0.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.2	1.3	0.0	0.0	0.0	0.0	65.5
1996	743	2,3,4,5	16.3	0.0	0.0	0.5	0.7	0.4	0.9	0.2	0.2	0.7	0.0	3.6	5.6	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	15.6	0.0	0.0	0.3	0.0	0.0	46.5
1997	608	2,3,4,5	13.3	0.7	0.0	8.7	2.1	0.5	0.0	0.0	0.0	1.1	0.0	0.4	7.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	5.4	0.7	0.0	0.0	0.0	1.2	30.5
1998	755	2,3,4,5	21.5	0.4	9.1	7.2	14.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.4	0.0	0.0	0.0	0.0	62.4
1999	835	2,3,4,5	15.4	0.0	6.3	0.7	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	6.4	1.4	0.0	0.0	0.0	1.0	61.4
2000	718	2,3,4,5	11.0	0.0	9.9	0.0	4.7	0.0	0.0	0.3	0.0	1.0	0.1	0.7	9.4	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	1.5	1.6	0.0	0.3	0.0	0.0	75.4
2001	1157	2,3,4,5	8.0	1.2	0.3	0.0	0.0	0.0	0.0	0.1	0.0	1.6	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.4	0.0	0.0	0.0	0.0	46.3
2002	1576	2,3,4,5	18.0	0.0	3.4	12.7	4.1	1.3	0.0	1.3	0.0	0.4	0.0	0.0	7.1	0.2	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	4.5	2.3	0.0	0.0	0.0	0.0	60.7
2003	1879	2,3,4,5	9.8	0.9	2.0	7.8	2.4	0.0	0.0	0.0	0.0	4.7	0.0	0.0	5.4	0.3	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	11.9	2.8	0.0	0.0	0.0	0.0	39.6
2004	1159	2,3,4,5	18.3	0.0	1.9	9.3	4.0	0.8	0.0	0.0	0.0	1.3	0.0	0.0	14.0	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	7.1	3.7	0.0	0.0	0.0	0.0	35.8
2005	816	2,3,4,5	15.2	0.0	0.9	12.5	5.4	0.4	3.2	0.0	0.0	1.7	0.0	0.0	9.9	0.2	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	7.2	3.1	0.0	0.0	0.0	0.8	39.4
2006	1314	2,3,4,5	12.0	0.0	2.1	13.3	8.2	0.3	0.9	0.0	0.0	0.0	0.0	0.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2	0.0	0.0	0.0	0.0	54.9
2007	497	2,3,4,5	7.8	0.2	7.8	3.6	10.3	0.0	1.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	3.0	0.0	0.0	0.0	0.0	60.2
2008	1766	2,3,4,5	8.8	0.0	0.5	7.9	7.7	0.0	1.6	0.0	0.0	0.0	0.0	0.0	8.9	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	10.0	6.2	0.0	0.0	0.0	0.2	50.4
2009	1691	2,3,4,5	9.2	0.0	1.3	6.4	3.4	0.8	2.3	0.0	0.0	0.6	0.0	0.0	9.4	0.2	0.1	0.1	0.0	0.0	1.2	0.0	0.0	0.0	0.0	9.4	1.9	0.0	0.3	0.0	1.2	50.4
2010	2025	2,3,4,5	9.8	0.0	1.5	10.5	3.1	0.0	0.5	0.0	0.0	0.3	0.0	0.0	8.3	0.5	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	9.3	2.9	0.0	0.0	0.0	0.1	53.0
2011	1853	2,3,4,5	8.1	0.1	1.8	7.6	4.4	1.3	0.7	0.0	0.0	0.0	0.0	1.2	8.3	0.5	0.0	0.0	0.0	0.0	0.1	2.3	0.0	0.0	0.0	4.5	4.9	0.0	0.1	0.0	0.0	52.7
2012	1945	2,3,4,5	6.8	0.0	2.6	7.6	4.4	1.1	1.2	0.0	0.0	0.6	0.0	0.4	10.1	0.2	0.4	0.2	0.0	0.0	0.3	0.7	0.0	0.0	0.0	3.0	2.1	0.0	0.0	0.0	0.9	61.2
2013	8133	2,3,4,5	7.5	0.1	0.5	7.6	1.9	0.2	1.0	0.0	0.0	0.6	0.0	1.6	10.0	0.7	0.0	0.0	0.0	0.0	0.5	1.2	0.0	0.0	0.0	8.2	1.7	0.0	0.0	0.0	0.9	50.2
2014	4657	2,3,4,5	11.0	0.2	0.9	7.2	2.0	3.3	1.7	0.0	0.0	0.2	0.0	3.0	5.2	2.2	0.5	0.1	0.0	0.0	0.5	0.3	0.0	0.0	0.0	3.3	3.8	0.0	0.0	0.0	1.4	64.9
2015	4983	2,3,4,5	6.7	0.2	0.2	3.7	1.4	0.5	1.2	0.0	0.0	0.6	0.0	0.5	7.9	2.3	0.5	0.0	0.0	0.0	0.5	0.3	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.6	0.0	0.0	5.8	1.6	0.0	0.2	0.0	0.3	40.6
85–95	994		14.8	0.7	0.8	14.6	0.9	4.7	0.4	2.9	0.9	0.3	0.1	5.8	2.1	0.1	0.0	0.0	0.0	0.0	1.3	0.4	0.0	0.0	0.0	9.8	0.7	0.0	0.1	0.0	0.4	47.5
96–98	702		17.0	0.4	3.0	5.5	5.6	0.3	0.3	0.1	0.1	1.1	0.0	1.5	5.8	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	6.1	2.4	0.0	0.0	0.0	0.2	53.6
99–08	1172		12.4	0.2	3.5	6.8	5.1	0.3	0.7	0.2	0.0	1.1	0.0	0.1	6.8	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	6.8	3.3	0.0	0.1	0.0	0.7	54.7
09–15	3612		8.5	0.1	1.3	7.2	2.9	1.0	1.2	0.0	0.0	0.4	0.0	1.0	8.5	0.9	0.2	0.1	0.0	0.0	0.4	0.8										

Appendix C. 36– Percent distribution of Skagit Spring Fingerling total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	28	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	68	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	38	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	4	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	64	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	537	2,3	0.6	0.4	0.0	0.0	0.0	0.6	0.6	0.0	5.4	0.4	0.0	0.2	12.7	0.2	0.0	0.0	0.0	0.0	0.2	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	62.6
1997	966	2,3,4	1.4	0.0	0.0	0.2	0.0	2.1	2.9	0.3	1.8	0.4	0.0	1.0	11.2	0.0	0.0	0.0	0.0	0.0	0.8	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.2	67.8
1998	766	2,3,4,5	2.1	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.5	0.7	0.0	0.3	17.0	0.0	0.0	0.0	0.0	0.0	0.4	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.6	67.2
1999	1798	2,3,4,5	0.9	0.2	0.0	0.3	0.3	2.3	5.3	0.0	0.1	0.0	0.0	0.0	7.7	0.4	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.4	78.0
2000	1208	2,3,4,5	1.9	0.0	0.6	0.0	0.0	6.5	6.5	0.0	0.0	0.5	0.0	0.2	11.8	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.2	65.6
2001	1986	2,3,4,5	1.7	0.1	0.4	0.3	0.0	5.7	3.9	0.0	0.0	0.6	0.0	0.0	6.4	0.2	0.0	0.0	0.0	0.0	0.1	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	1.0	69.5
2002	1795	2,3,4,5	2.8	0.0	0.6	0.6	0.0	5.6	5.1	0.0	0.1	0.6	0.0	0.0	7.7	0.3	0.1	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	71.7
2003	699	2,3,4,5	2.6	0.0	1.0	1.3	0.0	18.5	0.9	0.0	0.3	0.0	0.0	0.0	6.9	1.4	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	1.3	63.4
2004	1201	2,3,4,5	0.0	0.0	0.0	0.5	0.0	11.8	2.3	0.0	0.0	0.0	0.0	0.0	11.8	2.4	0.0	0.2	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.3	66.6
2005	1289	2,3,4,5	1.6	0.1	0.0	0.0	0.0	11.5	3.0	0.0	0.3	1.5	0.0	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4	70.8
2006	1785	2,3,4,5	0.4	0.1	0.0	0.2	0.0	6.7	1.3	0.0	0.0	0.0	0.0	0.0	9.0	0.2	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.1	76.1
2007	2581	2,3,4,5	0.3	0.2	0.0	0.0	0.0	9.1	6.0	0.0	0.0	0.0	0.0	0.0	8.5	0.9	0.0	0.0	0.0	0.0	0.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.6	69.1
2008	1515	2,3,4,5	0.3	0.0	0.0	0.0	0.0	3.8	5.0	0.0	0.3	0.3	0.0	0.0	6.5	0.7	0.0	0.0	0.0	0.0	0.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0	13.4	0.0	0.7	60.8
2009	950	2,3,4,5	0.5	0.0	0.0	0.0	0.0	2.8	4.1	0.0	0.0	0.0	0.0	0.0	6.6	1.2	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.0	0.5	60.2
2010	1594	2,3,4,5	0.1	0.0	0.0	0.0	0.0	2.1	2.6	0.0	0.0	0.0	0.0	0.0	7.3	0.3	0.0	0.0	0.0	0.0	0.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	1.1	65.7
2011	1516	2,3,4,5	0.3	0.1	0.0	0.0	0.0	1.2	3.1	0.0	0.0	0.5	0.0	0.0	4.7	0.0	0.1	0.0	0.0	0.0	0.1	4.4	0.0	0.0	0.0	0.0	0.0	0.0	16.0	0.0	1.1	68.5
2012	1876	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.7	2.4	0.0	0.0	0.4	0.0	0.0	9.3	0.2	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	15.5	0.0	0.7	61.5
2013	1307	2,3,4,5	0.6	0.5	0.0	0.0	0.0	2.5	3.3	0.0	0.0	0.5	0.0	0.0	6.2	0.4	0.2	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.0	0.2	57.6
2014	1048	2,3,4,5	2.1	0.2	0.0	1.0	0.0	3.3	4.9	0.0	0.0	0.5	0.0	0.0	7.6	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0	0.0	0.0	26.2	0.0	0.1	45.8
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	866		1.8	0.0	0.0	0.1	0.0	1.0	3.1	0.2	1.1	0.5	0.0	0.6	14.1	0.0	0.0	0.0	0.0	0.0	0.6	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.9	67.5
99–08	1586		1.3	0.1	0.2	0.3	0.0	8.2	3.9	0.0	0.1	0.3	0.0	0.0	8.6	0.6	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.7	69.2
09–15	1382		0.6	0.1	0.0	0.2	0.0	2.4	3.4	0.0	0.0	0.3	0.0	0.0	7.0	0.3	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.0	0.6	59.9

Appendix C. 37– Percent distribution of Skagit Spring Yearling total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			South[illegible]			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T		S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	7	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	76	2,3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	0.0	0.0	1.3	9.2	47.4	0.0	0.0	0.0	0.0	0.0	13.2	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.8
1985	132	2,3,4	0.0	0.0	0.0	0.0	0.0	6.8	0.0	0.0	0.8	0.0	0.0	25.0	29.5	0.0	0.0	0.0	0.0	0.0	9.1	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.6
1986	229	2,3,4,5	1.7	0.0	0.0	0.0	0.0	6.6	3.5	3.9	6.6	0.0	6.1	2.6	38.0	0.0	0.0	0.0	0.0	0.0	3.1	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8
1987	161	2,3,4,5	0.0	0.0	0.0	5.0	0.0	3.1	0.0	0.0	5.0	0.0	0.0	4.3	9.3	1.2	0.0	0.0	0.0	0.0	14.9	41.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.5
1988	576	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.4	2.4	0.0	5.6	0.0	0.5	7.1	24.8	2.1	0.0	0.0	0.0	0.3	16.3	16.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	20.5
1989	851	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.0	1.8	0.8	0.1	0.0	0.0	3.3	21.2	4.7	0.0	0.0	0.0	0.4	10.5	10.3	0.0	0.0	0.0	0.0	0.0	0.0	16.3	0.0	0.1	26.6
1990	732	3,4,5	0.0	0.0	0.0	0.0	0.0	5.1	2.0	0.4	1.[illegible]	0.5	3.3	2.2	18.7	3.7	0.0	0.0	0.0	0.0	11.9	24.6	0.0	0.0	0.0	1.8	0.0	0.0	2.3	0.0	0.0	21.6
1991	501	4,5	0.6	0.0	0.0	0.0	0.0	6.0	4.8	0.2	0.[illegible]	0.0	0.0	1.0	7.8	6.8	0.0	0.0	0.0	0.0	0.8	18.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	51.9
1992	96	2,5	0.0	0.0	0.0	0.0	0.0	8.3	2.1	0.0	2.1	0.0	3.1	3.1	24.0	1.0	0.0	0.0	0.0	0.0	7.3	27.1	0.0	0.0	0.0	3.1	0.0	0.0	1.0	0.0	0.0	17.7
1993	417	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	754	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	176	2,5	1.1	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	10.2	0.0	0.0	0.0	0.0	0.0	1.1	24.4	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.6	59.1
1996	181	2,3	0.6	0.0	0.0	0.0	0.0	1.7	2.2	0.0	0.6	1.1	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	50.3
1997	621	2,3,4	0.2	0.0	0.0	0.0	0.0	3.2	5.0	0.0	0.8	0.3	0.0	3.2	24.0	0.0	0.0	0.0	0.0	0.0	0.8	30.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	30.6
1998	1228	2,3,4,5	0.6	0.2	0.0	0.0	0.0	1.1	7.0	0.0	0.1	1.9	0.0	0.2	13.8	0.0	0.0	0.0	0.0	0.0	2.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.2	51.2
1999	2530	2,3,4,5	0.6	0.0	0.0	0.0	0.0	5.6	4.2	0.0	0.0	0.1	0.0	0.0	8.1	0.2	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.2	67.8
2000	569	2,3,4,5	0.7	0.0	0.0	0.0	0.0	6.5	3.2	0.0	0.0	0.0	0.0	0.0	16.2	0.0	0.0	0.0	0.0	0.0	0.2	20.2	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	51.8
2001	344	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.9	2.0	0.0	0.0	0.0	0.0	0.0	17.7	2.6	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	48.3
2002	306	2,3,4,5	1.0	0.0	0.0	0.0	0.0	0.7	9.5	0.0	0.0	0.0	0.0	0.0	21.9	0.0	0.0	0.0	0.0	0.0	0.7	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	52.3
2003	954	2,3,4,5	0.0	0.0	0.0	0.9	0.0	19.5	4.1	0.0	0.0	0.3	0.0	0.0	10.9	0.1	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	52.9
2004	1647	2,3,4,5	0.2	0.0	0.0	0.0	0.0	13.1	1.7	0.0	0.0	0.0	0.0	0.0	8.6	0.9	0.0	0.0	0.0	0.0	0.2	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.1	0.1	68.5
2005	1238	2,3,4,5	0.9	0.0	0.0	0.2	0.0	8.2	5.4	0.0	0.0	0.0	0.0	0.3	11.7	0.2	0.2	0.0	0.0	0.0	0.1	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.2	62.8
2006	757	2,3,4,5	0.4	0.0	0.0	0.0	0.0	8.9	3.4	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.3	0.0	0.4	0.0	0.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	65.8
2007	812	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.5	6.2	0.0	0.0	0.0	0.0	0.0	6.7	0.5	1.2	0.0	0.0	0.0	1.0	18.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	63.1
2008	744	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.7	3.9	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.3	12.9	0.0	0.0	0.0	0.0	0.0	0.0	12.0	0.0	0.1	63.0
2009	391	2,3,4,5	1.0	0.0	0.0	0.0	0.0	1.5	12.0	0.0	0.0	0.0	0.0	0.0	5.6	1.5	0.0	0.0	0.0	0.0	0.3	9.7	0.0	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.3	54.0
2010	413	2,3,4,5	0.2	0.0	0.0	0.0	1.2	0.0	1.7	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	0.5	65.1
2011	604	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.2	1.7	0.0	0.0	0.5	0.0	0.0	10.1	0.2	0.0	0.0	0.0	0.0	0.0	13.7	0.0	0.0	0.0	0.0	0.0	0.0	10.9	0.0	0.2	60.6
2012	850	2,3,4,5	0.7	0.0	0.0	0.0	0.0	1.1	3.4	0.0	0.0	0.0	0.0	1.3	7.5	0.8	0.0	0.0	0.0	0.0	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0	14.8	0.0	0.0	54.5
2013	426	3,4,5	0.0	0.0	0.9	0.0	0.0	2.1	2.1	0.0	0.0	0.0	0.0	0.0	10.3	0.9	0.5	0.0	0.0	0.0	0.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0	16.9	0.0	0.5	57.3
2014	445	4,5	0.9	0.0	0.0	0.0	0.0	2.9	1.8	0.0	0.0	0.0	0.0	0.0	7.9	0.7	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	35.7	0.0	0.0	45.4
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	447		0.3	0.0	0.0	0.8	0.0	4.7	1.6	0.9	3.3	0.1	1.7	7.4	23.6	2.0	0.0	0.0	0.0	0.1	11.0	20.0	0.0	0.0	0.0	0.3	0.0	0.0	3.4	0.0	0.0	18.9
96–98	924		0.4	0.1	0.0	0.0	0.0	2.1	6.0	0.0	0.4	1.1	0.0	1.7	18.9	0.0	0.0	0.0	0.0	0.0	1.4	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.1	40.9
99–08	990		0.4	0.0	0.0	0.1	0.0	6.9	4.4	0.0	0.0	0.0	0.0	0.0	12.2	0.5	0.2	0.0	0.0	0.0	0.3	13.2	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.1	59.6
09–15	537		0.4	0.0	0.2	0.0	0.2	1.4	4.2	0.0	0.0	0.1	0.0	0.3	7.2	0.7	0.1	0.0	0.0	0.0	0.1	11.8	0.0	0.0	0.0	0.0	0.0	0.0	14.9	0.0	0.3	58.3

Appendix C. 38– Percent distribution of Skykomish Fall Fingerling (Snohomish Wild) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	16	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	130	2,3	3.8	0.0	0.0	0.0	0.0	12.3	7.7	0.0	0.0	0.0	0.0	0.0	16.2	3.1	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.9
2004	609	2,3,4	0.5	0.0	0.0	0.0	0.0	16.6	3.6	0.0	0.0	1.5	0.0	0.0	7.9	0.5	0.0	0.0	0.0	0.0	0.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.3
2005	549	2,3,4,5	0.7	0.0	0.0	0.4	0.0	18.4	6.4	0.0	0.7	0.0	0.0	0.0	9.1	3.1	0.5	0.0	0.0	0.0	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.0
2006	635	2,3,4,5	1.1	0.0	0.0	0.3	0.0	14.2	3.3	0.0	0.2	0.0	0.0	0.0	8.0	5.2	0.0	0.0	0.0	0.0	0.9	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	57.8
2007	1144	2,3,4,5	0.4	0.0	0.0	0.2	0.0	15.0	5.6	0.0	0.0	0.0	0.0	0.0	6.6	3.1	0.0	0.0	0.0	0.0	1.4	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	60.1
2008	784	2,3,4,5	0.3	0.0	0.0	0.0	0.0	8.5	1.8	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.4	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	3.8	72.4
2009	351	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.3	4.8	0.0	0.0	0.0	0.0	0.0	4.0	1.1	0.0	0.0	0.0	0.0	0.0	16.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.2
2010	414	2,3,4,5	0.0	0.2	0.0	0.0	0.0	2.7	1.4	0.0	0.0	0.0	0.0	0.0	4.3	0.7	0.0	0.0	0.0	0.0	1.7	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	77.1
2011	497	2,3,4,5	0.2	0.4	0.0	0.0	0.0	1.8	3.6	0.0	0.0	0.0	0.0	0.0	6.2	1.6	0.6	0.0	0.0	0.4	0.4	19.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.2	55.7
2012	1026	2,3,4,5	0.3	0.0	0.0	0.0	0.2	3.9	2.5	0.0	0.0	0.1	0.0	0.0	16.3	2.9	0.0	0.0	0.0	0.2	0.4	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.3	0.6	59.9
2013	634	2,3,4,5	0.3	0.0	0.3	0.0	0.0	6.8	6.6	0.0	0.0	0.0	0.0	0.0	10.9	1.7	0.6	0.0	0.0	0.0	0.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	61.2
2014	428	3,4,5	1.4	0.0	0.0	0.0	0.0	1.6	2.1	0.0	0.0	0.2	0.0	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	10.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	72.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	744		0.6	0.0	0.0	0.2	0.0	14.5	4.1	0.0	0.2	0.3	0.0	0.0	7.1	2.4	0.1	0.0	0.0	0.0	0.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.8	61.5
09–15	558		0.4	0.1	0.1	0.0	0.0	3.2	3.5	0.0	0.0	0.1	0.0	0.0	8.9	1.4	0.2	0.0	0.0	0.1	0.5	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.2	0.4	66.2

Appendix C. 39– Percent distribution of Sooes (now Tsoo-Yess) Fall Fingerling (Washington Coastal Wild) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	16	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	32	2,3	3.1	3.1	3.1	12.5	0.0	3.1	0.0	0.0	0.0	0.0	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.6
1989	221	2,3,4	8.1	19.0	0.5	2.7	0.0	3.6	5.9	0.0	3.2	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.8
1990	170	3,4,5	11.2	5.3	4.1	16.5	0.0	17.6	0.0	1.8	0.6	0.0	0.0	1.8	6.5	1.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
1991	371	2,4,5	14.3	0.0	0.3	9.7	0.0	7.3	0.0	0.3	1.6	0.0	0.0	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.3
1992	328	2,3,5	10.1	0.3	0.3	10.7	0.0	20.7	1.5	2.1	0.0	0.0	0.0	3.0	1.2	0.3	0.0	0.0	0.6	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.3
1993	246	2,3,4	6.5	0.4	0.0	8.1	2.0	16.3	0.0	2.0	2.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.0
1994	240	2,3,4,5	18.8	11.3	3.8	10.4	0.8	7.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.1
1995	175	2,3,4,5	13.7	0.0	0.0	6.3	0.0	13.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	63.4
1996	224	2,3,4,5	15.2	0.0	0.0	0.4	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0
1997	301	2,3,4,5	12.0	0.0	6.3	5.3	0.0	0.0	0.0	0.7	0.3	0.0	0.0	0.3	4.0	0.0	0.0	1.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.9	0.0	0.0	47.5
1998	283	2,3,4,5	9.5	0.0	1.4	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	68.6
1999	218	2,3,4,5	14.2	0.0	13.8	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.8
2000	91	2,3,4,5	0.0	0.0	5.5	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.5
2001	308	2,3,4,5	9.4	0.0	2.9	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.8
2002	565	2,3,4,5	12.9	0.2	1.8	3.5	2.3	0.7	0.0	0.0	0.0	1.4	0.0	0.0	0.9	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.6
2003	793	2,3,4,5	14.1	0.1	0.0	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.6	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	24.0	0.0	0.0	50.8
2004	930	2,3,4,5	19.4	0.8	2.2	16.1	0.0	0.8	1.1	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	57.3
2005	508	2,3,4,5	24.8	0.0	2.4	25.4	8.3	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.8	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.7
2006	235	2,3,4,5	24.7	4.3	2.6	24.3	2.1	1.7	3.0	0.0	0.0	0.0	0.0	0.0	5.1	0.4	1.3	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5
2007	65	2,3,4,5	3.1	0.0	0.0	18.5	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.5
2008	115	2,3,4,5	8.7	0.0	0.0	14.8	11.3	0.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.0
2009	556	2,3,4,5	11.7	1.3	1.1	8.1	2.3	0.0	4.7	0.0	0.0	1.4	0.0	0.0	1.6	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	64.6
2010	441	2,3,4,5	4.3	0.0	2.0	5.7	1.4	0.9	1.1	0.0	0.0	0.0	0.0	0.0	4.1	0.2	3.4	0.0	0.0	0.2	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	74.8
2011	1128	2,3,4,5	10.1	0.4	0.9	4.7	1.4	1.8	2.0	0.0	0.0	1.2	0.0	0.0	2.0	0.4	1.9	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	72.7
2012	570	3,4,5	12.6	0.0	1.2	10.0	4.6	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	65.3
2013	333	2,4,5	7.2	0.0	0.9	2.4	1.2	0.0	0.0	0.0	0.0	1.2	0.0	0.0	4.8	0.0	1.8	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.6
2014	416	2,3,5	0.7	0.0	1.0	5.5	0.2	1.4	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	89.4
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	250		11.8	5.2	1.3	9.2	0.4	12.3	1.1	1.0	1.2	0.0	0.0	1.2	1.1	0.4	0.4	0.0	0.1	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	51.7
96–98	269		12.2	0.0	2.6	8.8	0.0	0.1	0.0	0.2	0.3	0.0	0.0	0.1	1.3	0.0	0.0	0.3	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	66.4
99–08	508		17.1	0.8	3.6	11.7	2.2	0.6	1.0	0.0	0.0	0.2	0.0	0.0	1.6	0.2	0.7	0.0	0.0	0.0	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.0	0.0	56.2
09–15	574		7.8	0.3	1.2	6.1	1.9	0.9	1.5	0.0	0.0	0.7	0.0	0.0	2.1	0.9	1.5	0.1	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	74.4

Appendix C. 40– Percent distribution of Spring Creek Tule (Spring Creek Hatchery) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	5116	2,3,4,5	0.0	0.0	0.0	0.1	0.0	25.6	0.1	0.7	0.3	0.0	0.2	2.3	1.1	17.0	7.2	1.3	0.2	0.7	0.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	19.3	0.0	0.0	16.2
1980	6668	2,3,4,5	0.1	0.0	0.0	0.1	0.0	27.3	0.0	0.6	0.1	0.0	0.1	0.9	2.7	23.9	5.1	1.7	0.1	1.7	0.4	6.6	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	0.1	10.6
1981	7118	2,3,4,5	0.0	0.0	0.0	0.1	0.0	22.2	0.2	0.2	0.1	0.0	0.1	1.9	1.3	22.3	11.0	2.8	0.2	0.4	0.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0	0.3	16.0
1982	4700	2,3,4,5	0.0	0.0	0.0	0.0	0.0	23.1	0.0	0.5	0.0	0.0	0.0	0.2	1.0	20.2	6.6	2.1	0.7	0.6	0.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.0	0.2	11.5
1983	868	2,3,4,5	0.0	0.0	0.0	0.0	0.0	31.7	0.5	0.3	0.0	0.0	0.0	0.0	1.2	9.4	3.9	0.0	0.2	0.0	0.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	18.0	0.0	0.2	26.3
1984	1124	2,3,4,5	0.0	0.0	0.0	0.0	0.0	27.2	0.4	2.3	0.0	0.0	0.0	1.2	0.0	3.3	0.4	2.7	0.6	0.1	0.5	9.4	0.0	0.0	0.0	0.0	0.0	0.0	23.4	2.8	0.1	25.7
1985	1225	2,3,4,5	0.0	0.0	0.0	0.0	0.0	14.9	0.7	0.2	0.0	0.0	0.0	[illegible]2	0.0	12.1	2.4	4.2	0.1	0.7	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	25.3	0.2	0.1	37.6
1986	334	2,3,4,5	0.0	0.0	0.0	0.0	0.0	24.0	2.4	3.0	0.0	0.0	0.0	1.5	1.8	0.9	2.4	1.5	0.0	0.9	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	33.2	1.2	7.8	14.7
1987	134	2,3,4,5	0.0	0.0	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.7	8.2	2.2	0.7	3.7	11.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	17.9	7.5	3.0	13.4
1988	798	2,3,4,5	0.0	0.0	0.0	0.5	0.0	26.9	0.0	0.4	0.3	0.0	0.0	1.5	4.6	12.4	1.8	4.9	1.3	0.0	1.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	23.6	3.6	3.1	8.8
1989	2297	2,3,4,5	0.0	0.0	0.0	0.3	0.0	17.0	3.0	0.0	0.0	0.0	0.0	0.4	0.5	19.4	2.2	7.6	1.0	0.0	0.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	30.5	3.0	0.0	12.9
1990	2394	2,3,4,5	0.0	0.0	0.0	0.3	0.0	20.3	4.1	0.4	0.1	0.0	0.3	0.8	0.9	12.0	7.2	3.6	0.0	0.0	0.3	5.6	0.0	0.0	0.0	0.0	0.0	0.0	19.9	2.0	0.0	22.1
1991	2878	2,3,4,5	0.0	0.0	0.0	0.0	0.0	15.6	1.3	0.3	0.1	0.0	0.0	0.4	0.4	13.0	3.2	5.8	1.7	0.0	0.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	30.3	3.4	0.0	20.8
1992	3133	2,3,4,5	0.0	0.0	0.0	0.0	0.0	14.4	2.1	0.3	0.0	0.0	0.2	0.4	0.7	22.9	4.4	6.0	0.8	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	13.2	3.3	0.2	27.6
1993	1238	2,3,4,5	0.0	0.0	0.0	0.0	0.0	20.0	4.2	0.0	0.0	0.0	0.0	0.3	0.0	17.9	2.3	1.5	0.6	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	19.1	3.0	0.0	25.4
1994	948	2,3,4,5	0.0	0.0	0.0	0.0	0.0	22.0	4.0	0.0	0.0	0.0	0.0	0.9	0.0	2.2	0.0	1.4	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	39.8
1995	917	2,3,4,5	0.0	0.0	0.0	0.0	0.0	10.7	2.9	0.0	0.0	0.0	0.0	0.4	0.0	1.4	0.0	0.4	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.1	0.0	1.7	44.9
1996	873	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	5.6	1.1	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.3	0.0	54.0	1.5	0.7	30.4
1997	628	2,3,4,5	0.0	0.0	0.0	0.0	0.0	13.9	1.8	0.0	0.0	0.0	0.0	0.0	0.8	1.0	1.3	4.6	0.2	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	23.1	6.4	0.0	43.2
1998	760	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	3.0	0.3	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	0.0	15.4	11.4	1.6	62.4
1999	1578	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.3	2.9	0.0	0.0	0.0	0.0	0.0	1.3	8.6	1.8	10.8	1.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	35.0	6.3	1.4	30.2
2000	905	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.5	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.0	4.2	0.1	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	6.5	0.0	53.9
2001	6492	2,3,4,5	0.0	0.0	0.0	0.0	0.0	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.2	4.7	2.3	11.6	0.8	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	22.0	2.1	0.1	50.3
2002	4555	2,3,4,5	0.0	0.0	0.0	0.0	0.0	10.7	1.2	0.0	0.0	0.0	0.0	0.0	0.5	14.7	7.1	4.3	1.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	23.7	2.4	0.0	33.5
2003	6251	2,3,4,5	0.0	0.0	0.0	0.0	0.0	10.5	3.0	0.0	0.0	0.0	0.0	0.0	0.1	8.6	3.4	4.0	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	21.5	2.2	0.5	45.5
2004	6314	2,3,4,5	0.0	0.0	0.0	0.0	0.0	12.3	3.0	0.0	0.0	0.0	0.0	0.0	0.1	7.4	2.4	3.3	1.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	17.9	1.8	0.0	50.5
2005	2432	2,3,4,5	0.0	0.0	0.0	0.0	0.0	25.0	3.0	0.0	0.0	0.0	0.0	0.0	0.3	6.1	0.9	1.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.5	0.9	0.2	35.8
2006	729	2,3,4,5	0.0	0.0	0.0	0.0	0.0	17.4	4.9	0.0	0.0	0.0	0.0	0.0	0.0	4.7	1.4	1.5	0.5	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	35.5	1.0	0.0	31.6
2007	1068	2,3,4,5	0.0	0.0	0.0	0.0	0.0	6.6	3.1	0.0	0.0	0.0	0.0	0.0	0.8	2.2	4.4	1.0	0.0	0.0	0.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	35.9	1.4	0.0	39.4
2008	2230	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.2	6.3	0.0	0.0	0.0	0.0	0.0	0.9	7.8	3.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	0.0	40.0	2.6	0.0	32.3
2009	2607	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.3	2.6	0.0	0.0	0.3	0.0	0.0	0.2	1.6	4.1	0.0	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0	34.7	2.3	0.2	45.3
2010	4150	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.7	3.2	0.0	0.0	0.0	0.0	0.0	0.8	12.0	5.2	4.2	0.3	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	34.3	1.4	0.1	32.7
2011	2253	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.9	6.1	0.0	0.0	0.0	0.0	0.0	0.4	6.0	6.4	2.2	0.2	0.7	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	41.4	1.3	0.3	28.5
2012	2522	2,3,4,5	0.0	0.0	0.0	0.0	0.0	3.5	3.3	0.0	0.0	0.0	0.0	0.0	2.7	9.5	8.9	4.8	0.6	0.4	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	33.6	2.5	0.2	26.7
2013	3040	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.9	3.2	0.0	0.0	0.0	0.0	0.0	1.3	5.2	3.8	1.4	1.0	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3	4.7	0.0	37.1
2014	4858	2,3,4,5	0.0	0.0	0.0	0.3	0.0	2.9	1.8	0.0	0.0	0.0	0.1	0.0	0.4	10.8	6.8	5.7	0.2	0.2	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	3.2	0.1	24.0
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	4266		0.0	0.0	0.0	0.0	0.0	26.2	0.2	0.8	0.1	0.0	0.1	1.1	1.2	16.0	5.7	1.8	0.4	0.6	0.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.5	0.2	17.7
85–95	1481		0.0	0.0	0.0	0.1	0.0	17.9	2.2	0.4	0.0	0.0	0.1	0.6	0.8	11.8	3.1	3.5	0.6	0.5	1.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	25.3	2.5	1.4	24.4
96–98	754		0.0	0.0	0.0	0.0	0.0	5.2	2.2	0.0	0.0	0.0	0.0	0.0	0.3	0.8	1.0	4.4	0.5	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.1	0.0	30.8	6.4	0.8	45.3
99–08	3255		0.0	0.0	0.0	0.0	0.0	9.6	3.4	0.0	0.0	0.0	0.0	0.0	0.4	6.6	2.9	4.2	0.5	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	27.7	2.7	0.2	40.3
09–15	3238		0.0	0.0	0.0	0.1	0.0	3.5	3.4	0.0	0.0	0.1	0.0	0.0	1.0	7.5	5.9	3.0	0.4	0.3	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	37.1	2.6	0.1	32.4

Appendix C. 41– Percent distribution of South Puget Sound Fall Fingerling (Puget Sound Hatchery Fingerling) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	1021	4,5	0.0	0.0	0.0	1.0	0.0	34.7	0.0	1.5	0.0	0.0	1.0	0.9	6.1	2.4	0.0	0.0	0.0	1.2	6.1	13.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.2	31.0
1980	634	2,5	0.0	0.0	0.0	0.0	0.0	17.0	0.0	0.3	1.7	0.0	0.5	3.2	6.9	1.4	0.0	0.0	0.0	1.4	10.6	47.3	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	7.3
1981	1284	2,3	0.0	0.0	0.0	0.2	0.0	17.1	0.0	0.6	0.7	0.0	1.6	8.7	15.7	1.9	0.0	0.0	0.0	0.2	7.1	40.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	4.8
1982	3192	2,3,4	0.2	0.1	0.0	0.2	0.0	22.8	0.0	0.9	0.3	0.0	2.1	1.5	10.8	2.7	0.1	0.0	0.0	0.0	12.2	26.8	0.0	0.0	0.0	0.0	0.0	0.0	9.6	0.0	0.2	9.4
1983	4727	2,3,4,5	0.1	0.0	0.0	0.7	0.0	18.3	0.1	1.8	0.5	0.0	0.3	2.3	4.1	1.6	0.0	0.1	0.0	0.4	15.6	36.2	0.0	0.0	0.0	0.0	0.0	0.0	6.2	0.2	0.1	11.4
1984	3920	2,3,4,5	0.1	0.2	0.0	0.7	0.0	21.3	0.2	1.5	0.2	0.1	1.3	0.9	7.3	1.4	0.1	0.1	0.0	1.3	12.3	24.9	0.0	0.0	0.0	0.0	0.0	0.0	9.0	0.2	0.4	16.7
1985	1497	2,3,4,5	0.8	0.0	0.0	0.0	0.0	18.6	0.2	0.3	0.3	0.0	0.3	1.6	6.8	1.7	0.0	0.1	0.0	0.7	15.9	21.0	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.3	20.2
1986	549	2,3,4,5	0.0	0.0	0.0	0.0	0.0	18.9	0.0	0.0	1.3	0.0	0.0	1.6	7.3	4.0	1.1	0.0	0.0	0.7	7.8	27.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	29.5
1987	581	2,3,4,5	0.0	0.0	0.0	0.0	0.0	21.2	0.0	0.0	0.0	0.0	0.0	3.3	11.9	9.0	0.2	0.0	0.0	0.3	9.8	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	27.7
1988	2475	2,3,4,5	0.4	0.0	0.0	0.2	0.0	10.4	1.1	1.0	0.6	0.0	0.2	3.0	13.9	7.7	0.4	0.2	0.1	0.2	15.2	22.9	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.2	19.6
1989	5513	2,3,4,5	0.1	0.0	0.0	0.3	0.0	8.9	2.1	0.4	0.1	0.0	0.2	3.7	5.2	11.4	0.3	0.9	0.1	0.4	12.0	17.4	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.2	29.2
1990	5888	2,3,4,5	0.0	0.1	0.1	0.3	0.0	24.0	4.0	0.3	0.3	0.0	0.3	1.0	3.9	9.2	0.4	0.1	0.0	0.1	12.5	13.1	0.0	0.0	0.0	0.0	0.0	0.0	9.3	0.4	0.2	20.5
1991	1879	2,3,4,5	0.4	0.0	0.0	0.0	0.0	16.7	2.4	0.1	0.0	0.0	0.2	1.0	2.0	11.4	0.3	0.9	0.0	0.0	10.3	14.1	0.0	0.0	0.0	0.0	0.0	0.0	14.4	0.2	0.2	25.5
1992	1584	2,3,4,5	0.6	0.4	0.0	0.0	0.0	17.6	2.0	0.9	0.5	0.0	0.3	2.4	3.8	8.6	0.6	0.6	0.1	0.0	11.7	23.7	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.1	18.1
1993	1596	2,3,4,5	0.3	0.1	0.0	0.0	0.0	18.2	3.8	0.1	0.6	0.0	1.0	2.0	4.3	5.9	0.2	0.0	0.0	0.0	6.8	23.1	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.1	26.6
1994	1848	2,3,4,5	0.0	0.0	0.0	0.5	0.0	9.6	0.5	0.0	0.2	0.0	0.0	4.9	5.0	0.6	0.0	0.0	0.0	0.0	9.6	16.9	0.0	0.0	0.0	0.0	0.0	0.0	4.5	0.2	0.2	47.2
1995	3964	2,3,4,5	0.2	0.1	0.0	0.1	0.0	5.4	1.2	0.0	1.1	0.0	0.0	0.7	2.2	1.3	0.0	0.0	0.0	0.0	3.4	17.7	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.3	64.9
1996	5178	2,3,4,5	0.1	0.0	0.0	0.0	0.0	0.9	1.7	0.0	0.4	0.0	0.0	0.2	4.5	2.6	0.0	0.2	0.0	0.0	3.5	18.3	0.0	0.0	0.0	0.0	0.3	0.0	2.4	0.0	0.2	64.6
1997	2725	2,3,4,5	0.5	0.0	0.0	0.6	0.0	6.6	1.5	0.0	0.6	0.0	0.0	0.4	1.8	1.2	0.1	0.3	0.0	0.0	2.1	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.1	0.1	67.4
1998	1884	2,3,4,5	1.4	0.0	0.0	0.6	0.0	0.5	1.5	0.0	0.0	0.0	0.0	0.0	1.9	1.0	0.0	0.0	0.0	0.0	3.8	11.6	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.4	0.2	73.4
1999	2272	2,3,4,5	0.6	0.0	0.0	0.3	0.0	0.7	3.3	0.0	0.0	0.0	0.0	0.0	4.2	3.2	0.3	0.4	0.0	0.0	3.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.2	70.6
2000	2486	2,3,4,5	0.4	0.1	0.0	0.0	0.0	10.1	4.3	0.0	0.0	0.0	0.0	0.0	2.3	0.3	0.2	0.0	0.0	0.0	5.2	14.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.4	57.2
2001	4111	2,3,4,5	0.1	0.0	0.0	0.0	0.0	8.4	3.1	0.0	0.0	0.0	0.0	0.0	3.5	3.3	0.3	1.3	0.1	0.0	3.8	14.1	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.3	55.0
2002	3600	2,3,4,5	0.9	0.0	0.0	0.8	0.0	11.3	3.4	0.0	0.3	0.0	0.0	0.0	4.8	3.6	0.5	0.8	0.0	0.0	3.2	9.4	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.2	47.0
2003	2327	2,3,4,5	0.7	0.0	0.0	0.8	0.0	13.6	3.7	0.0	0.0	0.0	0.0	0.0	4.6	4.2	0.4	1.2	0.0	0.0	6.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0	7.2	0.0	0.1	44.2
2004	2197	2,3,4,5	0.3	0.1	0.0	0.6	0.0	17.3	4.1	0.0	0.0	0.0	0.0	0.0	3.5	9.7	1.4	0.4	0.0	0.0	7.1	15.1	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.3	34.3
2005	2365	2,3,4,5	0.0	0.0	0.0	0.4	0.0	14.6	4.9	0.0	0.0	0.0	0.0	0.0	5.0	5.5	1.2	0.5	0.0	0.0	3.6	10.3	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.5	51.8
2006	3529	2,3,4,5	0.3	0.0	0.1	0.5	0.0	12.4	2.5	0.0	0.0	0.4	0.0	0.0	2.9	6.6	0.5	0.5	0.0	0.0	5.7	9.9	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.1	50.4
2007	3640	2,3,4,5	0.2	0.0	0.0	0.2	0.0	11.8	3.7	0.0	0.0	0.0	0.0	0.0	2.5	5.4	0.2	0.4	0.0	0.0	2.8	16.3	0.0	0.0	0.0	0.0	0.0	0.0	11.1	0.2	0.0	45.3
2008	2570	2,3,4,5	0.0	0.0	0.0	0.3	0.0	7.3	3.5	0.0	0.0	0.0	0.0	0.0	2.8	3.3	0.4	0.0	0.0	0.0	2.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.3	0.1	51.6
2009	2907	2,3,4,5	0.1	0.0	0.0	0.2	0.0	5.2	8.1	0.0	0.0	0.0	0.0	0.0	4.8	2.9	0.3	0.0	0.0	0.0	2.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0	11.3	0.2	0.3	50.8
2010	2923	2,3,4,5	0.1	0.0	0.0	0.1	0.1	5.5	5.5	0.0	0.0	0.5	0.0	0.0	2.3	2.9	1.4	0.1	0.0	0.1	0.9	11.3	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	68.0
2011	2823	2,3,4,5	0.3	0.1	0.0	0.0	0.0	3.5	5.5	0.0	0.0	0.0	0.0	0.0	3.8	3.2	0.4	0.1	0.0	0.0	1.6	15.3	0.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	60.3
2012	2771	2,3,4,5	0.0	0.0	0.0	0.1	0.0	4.4	4.4	0.0	0.0	0.0	0.0	0.0	5.4	5.4	0.7	0.7	0.0	0.0	1.3	19.8	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.1	56.2
2013	2911	2,3,4,5	0.1	0.4	0.0	0.1	0.0	2.9	2.6	0.0	0.0	0.0	0.0	0.0	3.7	3.4	0.7	0.0	0.0	0.0	1.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	70.5
2014	2095	2,3,4,5	1.1	0.2	0.0	0.2	0.0	6.0	3.4	0.0	0.0	0.0	0.0	0.0	6.9	4.1	2.0	0.5	0.0	0.0	0.4	16.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.1	57.5
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	3946		0.2	0.1	0.0	0.5	0.0	20.8	0.1	1.4	0.3	0.0	1.2	1.6	7.4	1.9	0.1	0.1	0.0	0.6	13.4	29.3	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.1	0.2	12.5
85–95	2489		0.2	0.1	0.0	0.1	0.0	15.4	1.6	0.3	0.4	0.0	0.2	2.3	6.0	6.4	0.3	0.3	0.0	0.2	10.4	19.3	0.0	0.0	0.0	0.0	0.0	0.0	6.1	0.1	0.3	29.9
96–98	3262		0.7	0.0	0.0	0.4	0.0	2.7	1.6	0.0	0.3	0.0	0.0	0.2	2.7	1.6	0.0	0.2	0.0	0.0	3.1	15.3	0.0	0.0	0.0	0.0	0.1	0.0	2.2	0.2	0.2	68.5
99–08	2910		0.3	0.0	0.0	0.4	0.0	10.7	3.7	0.0	0.0	0.0	0.0	0.0	3.6	4.5	0.5	0.5	0.0	0.0	4.4	12.5	0.0	0.0	0.0	0.0	0.0	0.0	7.7	0.0	0.2	50.7
09–15	2738		0.3	0.1	0.0	0.1	0.0	4.6	4.9	0.0	0.0	0.1	0.0	0.0	4.5	3.6	0.9	0.2	0.0	0.0	1.4	14.8	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.1	60.5

Appendix C. 42– Percent distribution of South Puget Sound Fall Yearling (Puget Sound Hatchery Yearling) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	27	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	180	2,3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9	0.0	0.0	0.0	0.0	0.0	0.0	2.2	84.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
1982	359	2,3,4	0.0	0.0	0.0	0.0	0.0	3.1	0.0	2.2	0.0	0.0	0.0	0.0	2.2	0.8	0.0	0.0	0.0	0.0	7.0	72.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7	1.1	0.0	6.7
1983	460	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.9	0.0	1.7	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	7.0	78.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	5.0
1984	261	3,4,5	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.8	29.1	46.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	13.4
1985	71	4,5	0.0	0.0	0.0	0.0	0.0	14.1	0.0	0.0	0.0	0.0	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	7.0	57.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	125	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	723	2,3	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.8	0.1	1.9	0.0	0.0	0.0	0.0	26.8	65.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.3	2.1
1990	1402	2,3,4	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.1	0.1	0.0	0.0	0.4	0.1	1.6	0.1	0.0	0.0	0.0	29.7	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.1	9.9
1991	1228	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.9	0.0	0.6	0.0	0.0	10.7	62.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	16.9
1992	573	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.7	4.7	0.7	0.0	0.0	0.0	23.6	52.5	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.2	10.3
1993	456	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.1	0.0	0.0	0.0	0.0	6.4	71.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.2	16.9
1994	791	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.3	1.5	0.0	0.0	0.0	0.0	0.0	15.2	63.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4
1995	714	2,3,4,5	0.0	0.0	0.0	0.0	0.0	5.5	1.7	0.0	0.0	0.0	0.0	0.0	2.1	0.3	0.0	0.0	0.0	0.0	7.6	73.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.1	0.1	7.6
1996	787	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	1.7	0.1	0.0	0.0	0.0	0.0	2.5	90.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	2.9
1997	581	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.9	0.5	2.1	0.7	0.0	0.0	3.3	70.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7
1998	117	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	1.7	86.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	7.7
1999	107	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2	3.7	0.0	0.0	0.0	0.0	0.9	82.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
2000	95	3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	0.0	0.0	9.5	74.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3
2001	91	2,4,5	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	80.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3
2002	10	2,3,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
2003	7	3,4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.9
2004	227	2,4,5	0.0	0.0	0.0	0.0	0.0	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	52.9
2005	313	2,3,5	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.3	0.0	0.0	0.0	13.1	61.3	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0	19.5
2006	404	2,3,4	0.0	0.0	0.0	0.0	0.0	5.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	13.6	53.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.2	20.0
2007	316	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.6	0.0	0.9	0.0	12.7	54.4	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.3	23.4
2008	118	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	4.2	49.2	0.0	0.0	0.0	0.0	0.0	0.0	8.5	0.0	2.5	29.7
2009	207	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.0	0.0	0.0	0.0	4.3	0.5	0.0	0.0	0.0	0.0	2.4	57.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.4	0.0	18.8
2010	172	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	2.3	0.6	1.7	0.0	0.0	0.0	5.2	33.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	51.7
2011	241	3,4,5	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.4	0.8	0.0	2.1	23.2	63.1	0.0	0.0	0.0	0.0	0.0	0.0	5.4	0.0	0.0	1.2
2012	214	2,4,5	0.0	0.0	0.0	0.0	0.0	1.4	5.6	0.0	0.0	0.0	0.0	0.0	2.3	3.7	3.7	1.4	0.0	0.0	32.2	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.2
2013	35	2,3,5	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	48.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9
2014	4	3,4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	360		0.0	0.0	0.0	0.0	0.0	5.3	0.0	1.3	0.0	0.0	0.0	0.0	1.5	0.3	0.0	0.0	0.0	0.3	14.3	65.7	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.4	0.0	8.4
85–95	861		0.0	0.0	0.0	0.0	0.0	3.1	0.5	0.0	0.0	0.0	0.0	0.5	1.0	1.8	0.1	0.1	0.0	0.0	15.5	63.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	0.1	13.0
96–98	684		0.0	0.0	0.0	0.0	0.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0	1.3	0.3	1.0	0.3	0.0	0.0	2.9	80.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.3	0.0	11.8
99–08	315		0.0	0.0	0.0	0.0	0.0	2.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.5	0.0	0.2	0.0	9.8	53.1	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.5	29.0
09–15	208		0.0	0.0	0.0	0.0	0.0	0.8	5.0	0.0	0.0	0.0	0.0	0.0	2.3	1.7	1.5	0.6	0.0	0.5	15.8	49.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.8	0.9	19.0

Appendix C. 43– Percent distribution of Squaxin Pens Fall Yearling (Puget Sound Hatchery Yearling) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	150	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	884	2,3	0.0	0.0	0.0	0.0	0.0	1.5	0.1	0.0	0.0	0.0	0.1	1.0	0.5	4.5	0.3	0.0	0.0	0.0	35.3	52.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.5	2.1	1.0
1990	1634	2,3,4	0.0	0.0	0.0	0.0	0.0	3.5	0.6	0.0	0.1	0.0	0.0	1.1	0.9	4.3	0.4	0.0	0.0	0.0	28.2	57.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.7	2.0
1991	891	2,3,4,5	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.4	0.4	1.3	9.1	0.3	0.0	0.0	0.0	30.6	49.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	1.3	2.0
1992	743	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.5	0.4	0.0	0.4	0.0	0.4	1.2	2.3	4.7	0.3	0.0	0.0	0.0	20.9	62.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.9	3.9
1993	331	3,4,5	0.0	0.0	0.0	0.0	0.0	9.7	2.4	0.0	0.9	0.0	0.0	1.5	6.6	11.2	0.6	0.0	0.0	0.0	1.2	46.5	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	4.8	12.1
1994	173	2,4,5	0.0	0.0	0.0	0.0	0.0	26.6	5.2	0.0	0.0	0.0	0.0	4.6	5.8	6.4	0.0	0.0	0.0	0.0	22.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	19.1
1995	132	2,3,5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	19.7	67.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	3.0	6.8
1996	253	2,3,4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.4	0.0	0.0	6.3	87.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	1.2	2.4
1997	139	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	10.1	84.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
1998	77	3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	0.0	0.0	2.6	88.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	1.3	2.6
1999	166	2,4,5	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	94.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
2000	358	3,5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.1	0.6	0.0	0.6	0.0	0.0	6.1	89.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.6
2001	223	4	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	754		0.0	0.0	0.0	0.0	0.0	9.2	1.7	0.0	0.3	0.0	0.2	1.8	3.4	7.1	0.3	0.0	0.0	0.0	20.6	44.4	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	2.3	7.8
96–98	196		0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	1.3	0.0	0.0	8.2	86.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.6	1.5
99–08	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09–15	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix C. 44– Percent distribution of Salmon River (Oregon Coast) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	473	2,3	12.7	0.0	0.2	25.2	0.0	12.5	0.0	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.6	3.2	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.1
1980	850	2,3,4	30.4	0.0	0.8	10.4	0.0	8.0	0.0	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4
1981	825	2,3,4,5	24.0	0.0	0.7	24.0	0.0	3.2	0.0	0.2	2.2	0.0	0.0	0.0	0.6	0.2	0.0	0.4	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
1982	718	2,3,4,5	9.9	1.3	0.6	12.4	0.0	6.5	0.0	1.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7	0.8	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.1
1983	677	3,4,5	20.1	0.4	0.0	13.7	0.0	6.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	21.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8
1984	717	2,4,5	13.9	0.0	0.0	19.8	0.0	3.8	0.0	3.8	0.4	0.0	0.0	0.8	0.0	0.0	0.0	0.3	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	0.0	37.8
1985	393	2,3,5	26.0	1.8	0.0	23.2	0.0	2.3	0.0	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	33.3
1986	386	2,3,4	26.2	0.0	0.0	15.5	0.0	3.9	0.0	4.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.2	0.0	15.5
1987	790	2,3,4,5	16.5	0.0	0.0	17.1	0.0	2.4	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.9	0.1	37.5
1988	1299	2,3,4,5	12.7	0.0	0.0	7.6	0.0	4.7	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.1	58.4
1989	1283	2,3,4,5	14.4	0.0	0.0	13.3	0.0	4.3	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.0	2.8	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.8	0.2	41.9
1990	1629	2,3,4,5	16.9	1.9	0.0	11.5	1.4	7.4	0.0	0.2	0.6	0.0	0.0	0.2	0.0	1.5	0.2	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	0.0	34.4
1991	2688	2,3,4,5	22.2	0.0	0.5	15.4	0.8	5.9	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0	30.9
1992	2908	2,3,4,5	3.9	3.0	0.0	6.8	1.8	15.0	0.0	0.6	0.3	0.0	0.0	0.0	0.1	0.1	0.2	1.7	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3	0.0	51.8
1993	2349	2,3,4,5	10.1	0.5	0.2	16.7	1.0	18.6	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.5	0.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	27.5
1994	4445	2,3,4,5	13.8	0.4	0.8	14.6	1.8	4.8	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.2	0.0	45.5
1995	4133	2,3,4,5	8.8	0.2	0.4	5.9	1.1	1.0	0.2	0.1	0.0	0.0	0.0	2.8	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.5	0.0	50.7
1996	2124	2,3,4,5	17.8	0.0	0.0	1.3	0.2	0.7	0.0	0.1	0.0	0.0	0.0	0.9	0.0	0.3	0.0	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	46.2	0.0	27.8
1997	4317	2,3,4,5	30.2	0.0	1.6	3.3	0.4	0.2	0.0	0.1	0.0	0.0	0.0	2.0	0.0	0.0	0.1	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	42.8
1998	3534	2,3,4,5	9.1	0.6	0.4	9.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24.9	0.0	52.0
1999	2198	2,3,4,5	17.1	0.1	0.0	4.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6	0.1	40.8
2000	2763	2,3,4,5	15.3	0.0	0.4	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	0.0	58.7
2001	3785	2,3,4,5	15.1	0.0	0.9	3.4	1.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24.6	0.1	49.6
2002	5076	2,3,4,5	20.5	0.0	1.0	7.4	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2	0.1	33.7
2003	4915	2,3,4,5	14.4	1.4	0.6	6.4	1.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	0.1	39.5
2004	5236	2,3,4,5	19.0	1.4	0.8	7.6	4.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0	40.9
2005	4603	2,3,4,5	20.1	0.0	1.1	8.9	5.5	2.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.3	0.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.2	0.0	29.8
2006	1801	2,3,4,5	26.9	0.1	1.7	11.8	6.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	1.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	25.7	0.2	18.5
2007	943	2,3,4,5	20.4	0.0	1.5	10.1	5.9	0.2	1.5	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.1	41.4
2008	1844	2,3,4,5	16.1	0.0	1.6	7.2	4.5	0.7	1.1	0.0	0.3	0.0	0.0	0.0	0.1	0.8	0.1	0.2	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	53.6
2009	2542	2,3,4,5	18.9	1.0	1.8	13.5	3.7	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	23.6	0.0	35.3
2010	3986	2,3,4,5	12.9	0.0	1.4	7.0	1.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.4	0.4	0.2	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.9	0.1	33.5
2011	5217	2,3,4,5	11.3	0.0	0.8	6.0	2.4	2.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.6	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	30.2	0.0	42.2
2012	4121	2,3,4,5	17.3	0.3	0.6	9.3	2.4	1.9	2.2	0.0	0.0	0.0	0.0	0.0	0.1	4.2	0.5	0.1	2.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.1	35.9
2013	8227	2,3,4,5	6.0	0.2	0.7	8.4	1.5	0.5	0.8	0.0	0.0	1.1	0.0	0.0	0.4	2.2	0.7	0.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	0.0	54.0
2014	11371	2,3,4,5	9.6	0.1	0.7	5.7	1.2	1.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.3	0.3	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.3	0.0	56.8
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	757		19.7	0.3	0.4	16.1	0.0	5.6	0.0	1.3	0.9	0.0	0.0	0.2	0.1	0.0	0.3	0.5	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	35.3
85–95	2028		15.6	0.7	0.2	13.4	0.7	6.4	0.0	0.8	0.2	0.0	0.0	0.4	0.0	0.2	0.1	1.1	1.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7	0.1	38.8
96–98	3325		19.1	0.2	0.6	4.7	0.7	0.3	0.0	0.1	0.0	0.0	0.0	1.0	0.0	0.1	0.0	1.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.7	0.0	40.9
99–08	3316		18.5	0.3	1.0	7.0	3.9	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.1	40.6
09–15	5911		12.7	0.3	1.0	8.3	2.1	1.1	0.8	0.0	0.0	0.2	0.0	0.0	0.1	1.6	0.5	0.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	26.8	0.0	42.9

Appendix C. 45– Percent distribution of Salmon River (Oregon Coast) 5-age ERA output total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US			
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	471	2,3	12.7	0.0	0.2	25.1	0.0	12.3	0.0	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.6	3.2	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
1980	846	2,3,4	30.1	0.0	0.8	10.4	0.0	7.9	0.0	1.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.9	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.6
1981	783	2,3,4,5	22.7	0.0	0.5	24.0	0.0	3.4	0.0	0.5	2.2	0.0	0.0	0.0	0.6	0.3	0.0	0.4	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2
1982	734	2,3,4,5,6	9.8	1.2	0.5	12.1	0.0	6.3	0.0	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.7	0.7	24.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.8
1983	665	3,4,5,6	19.5	0.5	0.0	13.4	0.0	6.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	21.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37.3
1984	700	2,4,5,6	13.6	0.0	0.0	19.0	0.0	3.7	0.0	3.4	0.4	0.0	0.0	0.9	0.0	0.0	0.0	0.3	18.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.1	0.0	38.9
1985	383	2,3,5,6	26.1	1.8	0.0	23.5	0.0	2.3	0.0	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	32.4
1986	419	2,3,4,6	25.1	0.0	0.0	18.9	0.0	3.3	0.0	4.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.5	0.0	16.0
1987	756	2,3,4,5	16.7	0.0	0.0	16.1	0.0	2.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.1	36.6
1988	1330	2,3,4,5,6	12.9	1.1	0.0	7.3	0.0	4.4	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.5	0.1	58.0
1989	1317	2,3,4,5,6	15.3	0.0	0.0	14.7	0.0	4.0	0.0	0.0	0.1	0.0	0.0	0.7	0.0	0.0	0.0	2.7	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.5	0.2	40.4
1990	1641	2,3,4,5,6	16.5	1.9	0.0	11.9	1.4	7.3	0.0	0.2	0.5	0.0	0.0	0.2	0.0	1.5	0.2	1.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	0.0	34.2
1991	2677	2,3,4,5,6	22.3	0.0	0.5	15.8	0.8	5.7	0.0	0.1	0.7	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.3	0.0	30.5
1992	3053	2,3,4,5,6	4.0	2.8	0.0	7.6	1.8	15.4	0.0	0.9	0.3	0.0	0.0	0.0	0.1	0.1	0.2	1.6	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.6	0.1	50.0
1993	2394	2,3,4,5,6	10.2	0.5	0.2	17.2	1.0	18.5	0.0	0.2	0.0	0.0	0.0	0.3	0.0	0.5	0.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.0	26.7
1994	4425	2,3,4,5,6	13.8	0.5	0.8	14.7	1.9	4.7	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.4	0.0	45.2
1995	4195	2,3,4,5,6	8.9	0.2	0.4	6.0	1.1	1.1	0.2	0.1	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	0.0	50.3
1996	2224	2,3,4,5,6	18.2	0.0	0.0	1.2	0.2	0.6	0.0	0.1	0.0	0.0	0.0	0.9	0.0	0.3	0.0	3.6	0.9	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	46.4	0.0	27.3
1997	4307	2,3,4,5,6	30.4	0.0	1.6	3.3	0.4	0.2	0.0	0.1	0.0	0.0	0.0	2.0	0.0	0.0	0.1	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	42.5
1998	3571	2,3,4,5,6	9.3	0.6	0.4	9.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	25.3	0.0	51.7
1999	2255	2,3,4,5,6	16.6	0.1	0.0	5.4	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.4	0.1	39.8
2000	2792	2,3,4,5,6	15.7	0.0	0.6	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1	0.0	58.2
2001	3806	2,3,4,5,6	15.2	0.0	0.9	3.5	1.6	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	2.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	24.5	0.1	49.5
2002	5068	2,3,4,5,6	20.4	0.0	1.0	7.4	2.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	1.2	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.3	0.1	33.7
2003	4891	2,3,4,5,6	14.4	1.4	0.6	6.4	1.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.7	0.1	39.2
2004	5228	2,3,4,5,6	19.3	1.4	0.8	7.5	4.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	0.0	40.5
2005	4724	2,3,4,5,6	20.5	0.0	1.2	8.7	5.4	2.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.3	0.8	1.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	28.8
2006	2003	2,3,4,5,6	25.5	0.0	1.8	12.2	7.1	1.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	25.7	0.1	19.2
2007	979	2,3,4,5,6	21.3	0.0	1.4	10.1	6.9	0.2	1.4	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	0.1	39.9
2008	1864	2,3,4,5,6	16.2	0.0	1.5	7.0	5.0	0.6	1.1	0.0	0.3	0.0	0.0	0.0	0.1	0.8	0.1	0.2	0.7	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	0.0	53.1
2009	2533	2,3,4,5,6	18.9	1.0	1.7	13.4	3.8	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	23.7	0.0	35.3
2010	4018	2,3,4,5,6	12.8	0.0	1.5	7.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.4	0.1	33.0
2011	5230	2,3,4,5,6	11.3	0.0	0.8	6.0	2.4	2.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.6	0.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	30.1	0.0	42.3
2012	4094	2,3,4,5,6	17.3	0.3	0.6	9.3	2.4	2.0	2.1	0.0	0.0	0.0	0.0	0.0	0.1	4.3	0.5	0.1	2.8	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.2	0.1	35.7
2013	8270	2,3,4,5,6	5.9	0.3	0.7	8.5	1.5	0.5	0.8	0.0	0.0	1.1	0.0	0.0	0.4	2.1	0.7	0.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.9	0.0	54.0
2014	11347	2,3,4,5,6	9.6	0.1	0.7	5.6	1.2	1.6	0.1	0.1	0.0	0.0	0.0	0.0	0.0	1.3	0.3	0.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.0	56.9
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	746		19.2	0.3	0.4	15.8	0.0	5.6	0.0	1.3	0.8	0.0	0.0	0.2	0.1	0.1	0.3	0.5	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	35.7
85–95	2054		15.6	0.8	0.2	14.0	0.7	6.3	0.0	0.8	0.2	0.0	0.0	0.4	0.0	0.2	0.1	1.1	1.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.8	0.1	38.2
96–98	3367		19.3	0.2	0.6	4.7	0.7	0.3	0.0	0.1	0.0	0.0	0.0	1.0	0.0	0.1	0.0	1.7	0.8	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	29.9	0.0	40.5
99–08	3361		18.5	0.3	1.0	7.1	4.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.7	0.1	40.2
09–15	5915		12.6	0.3	1.0	8.3	2.1	1.1	0.8	0.0	0.0	0.2	0.0	0.0	0.1	1.6	0.4	0.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	26.9	0.0	42.8

Appendix C. 46– Percent distribution of Skagit Summer Fingerling (Skagit Wild) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	4	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	10	2,3	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	10.0	10.0
1998	182	2,3,4	3.8	0.0	0.0	0.0	0.0	1.6	3.8	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0
1999	179	2,3,4,5	10.6	0.6	0.0	0.0	0.0	0.0	22.3	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	58.1
2000	269	2,3,4,5	10.8	0.7	0.0	0.0	0.0	3.3	7.8	0.0	0.0	0.0	0.0	0.0	7.4	0.0	0.0	0.0	0.0	0.0	1.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	55.4
2001	840	2,3,4,5	9.0	2.6	1.1	0.0	0.0	8.8	5.6	0.0	0.0	0.5	0.0	0.0	10.4	0.1	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	1.7	56.8
2002	2244	2,3,4,5	13.3	0.0	0.9	1.6	0.5	6.0	1.8	0.0	0.1	0.4	0.0	2.3	4.5	0.1	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	3.6	64.0
2003	870	2,3,4,5	7.2	0.1	0.0	4.1	1.4	10.5	3.9	0.0	0.0	0.0	0.0	0.2	8.9	0.3	0.3	0.0	0.0	0.0	0.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	61.7
2004	836	2,3,4,5	5.5	0.0	0.0	2.8	0.0	11.5	1.3	0.0	0.0	0.0	0.0	0.0	2.9	0.8	0.0	0.0	0.0	0.0	0.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	10.0	63.6
2005	955	2,3,4,5	8.7	0.3	0.0	1.7	2.3	7.3	2.0	0.0	0.4	0.0	0.0	0.0	7.2	0.0	0.0	0.0	0.0	0.0	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.5	64.8
2006	1388	2,3,4,5	3.5	1.2	0.2	0.6	0.9	4.3	3.4	0.0	0.2	0.0	0.0	0.0	4.6	0.4	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.5	76.2
2007	1464	2,3,4,5	6.2	0.8	0.2	1.0	0.6	8.8	2.1	0.0	0.1	0.3	0.0	0.0	2.3	1.0	0.0	0.0	0.0	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.8	72.3
2008	1108	2,3,4,5	5.6	0.0	0.0	1.4	1.0	5.3	4.3	0.0	0.0	0.4	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	1.6	57.5
2009	828	2,3,4,5	7.7	1.0	0.8	1.7	0.0	3.6	6.0	0.0	0.0	1.2	0.0	0.0	7.0	0.2	0.0	0.0	0.0	0.0	0.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	33.6	0.0	1.2	32.9
2010	561	2,3,4,5	8.6	0.5	0.2	1.6	0.0	4.6	4.3	0.0	0.5	3.6	0.0	0.0	2.9	0.5	0.0	0.0	0.0	0.0	0.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	7.1	0.9	3.7	57.0
2011	569	2,3,4,5	4.9	0.0	0.5	0.0	0.0	6.7	5.4	0.0	0.0	0.7	0.0	0.0	6.0	1.1	0.0	0.0	0.0	0.0	0.5	6.9	0.0	0.0	0.0	0.0	0.0	0.0	18.3	0.0	2.1	46.9
2012	533	2,3,4,5	8.6	1.7	0.0	1.9	0.4	2.6	2.3	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.4	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	3.2	72.4
2013	326	2,3,4,5	4.6	1.8	0.0	2.1	0.0	0.9	9.5	0.0	0.0	1.2	0.0	0.0	6.7	0.9	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	14.7	0.0	6.1	47.5
2014	359	2,3,4,5	16.2	2.5	0.0	0.0	0.0	7.0	1.7	0.0	0.0	1.7	0.0	0.0	15.9	0.8	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	0.0	6.4	0.0	4.2	39.0
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	182		3.8	0.0	0.0	0.0	0.0	1.6	3.8	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.0
99–08	1015		8.1	0.6	0.2	1.3	0.7	6.6	5.5	0.0	0.1	0.2	0.0	0.3	5.9	0.3	0.0	0.0	0.0	0.0	0.4	2.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	1.9	63.0
09–15	529		8.4	1.3	0.3	1.2	0.1	4.2	4.9	0.0	0.1	1.4	0.0	0.0	6.9	0.6	0.1	0.0	0.0	0.0	0.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0	13.8	0.1	3.4	49.3

Appendix C. 47– Percent distribution of Stikine River total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	9	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	24	3,4	4.2	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	83.3
2003	170	3,4,5	5.9	0.6	2.4	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.6	0.6	4.7	0.0	0.0	0.0	0.0	0.0	74.1
2004	243	3,4,5,6	8.6	0.0	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.5	10.3	0.0	0.0	0.0	0.0	0.0	68.7
2005	425	3,4,5,6	9.2	1.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.9	20.0	4.0	20.7	0.0	0.0	0.0	0.0	0.0	36.9
2006	440	3,4,5,6	8.9	2.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	28.2	1.4	23.9	0.0	0.0	0.0	0.0	0.0	31.8
2007	343	3,4,5,6	9.9	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	16.0	2.6	30.0	0.0	0.0	0.0	0.0	0.0	38.8
2008	377	3,4,5,6	4.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	18.3	1.9	22.3	0.0	0.0	0.0	0.0	0.0	49.6
2009	229	3,4,5,6	11.8	3.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.7	2.6	12.7	0.0	0.0	0.0	0.0	0.0	56.3
2010	251	3,4,5,6	12.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.8	1.2	15.9	0.0	0.0	0.0	0.0	0.0	62.5
2011	318	3,4,5,6	5.7	6.6	2.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	9.1	0.6	16.4	0.0	0.0	0.0	0.0	0.0	58.5
2012	610	3,4,5,6	9.0	3.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.2	16.4	0.0	0.0	0.0	0.0	0.2	68.0
2013	455	3,4,5,6	4.4	3.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.0	1.1	6.8	0.0	0.0	0.0	0.0	0.0	80.4
2014	605	3,4,5,6	3.6	3.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	3.5	0.2	10.7	0.0	0.0	0.0	0.0	0.0	77.9
2015	876	4,5,6	2.9	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	8.1	0.0	0.0	0.0	0.0	0.0	86.2
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	333		7.8	0.8	1.0	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	14.2	2.2	18.6	0.0	0.0	0.0	0.0	0.0	50.0
09–15	478		7.1	3.3	0.6	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	5.0	0.8	12.4	0.0	0.0	0.0	0.0	0.0	70.0

Appendix C. 48– Percent distribution of Stillaguamish Fall Fingerling (Stillaguamish Wild) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	17	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	55	2,3	1.8	0.0	0.0	0.0	0.0	21.8	0.0	3.6	20.0	0.0	0.0	3.6	10.9	0.0	0.0	0.0	0.0	0.0	9.1	29.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1984	106	2,3,4	0.9	0.0	0.0	3.8	0.0	10.4	0.0	17.0	1.9	0.0	0.0	19.8	16.0	0.0	0.0	0.0	0.0	0.0	3.8	26.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1985	110	2,3,4,5	8.2	0.0	0.0	3.6	0.0	30.0	2.7	0.0	4.5	0.0	0.0	10.0	13.6	0.0	0.0	0.0	0.0	0.9	7.3	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0
1986	95	3,4,5	5.3	0.0	0.0	0.0	0.0	32.6	0.0	0.0	4.2	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	8.4	7.4	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1987	42	4,5	9.5	0.0	0.0	0.0	0.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0	21.4	0.0	0.0	0.0	0.0	0.0	9.5	7.1	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	0.0	23.8
1988	101	2,5	0.0	0.0	0.0	0.0	0.0	5.9	1.0	1.0	3.0	0.0	0.0	6.9	12.9	3.0	0.0	0.0	0.0	0.0	21.8	43.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
1989	305	2,3	0.0	0.0	0.0	0.0	0.0	12.8	5.6	3.6	2.0	0.0	0.0	6.2	16.1	9.2	0.0	0.0	0.0	0.0	16.4	16.7	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	6.6	3.0
1990	405	2,3,4	0.7	0.0	0.0	1.0	0.0	21.7	4.0	7.9	4.7	0.0	0.7	4.9	11.9	6.7	0.0	0.0	0.0	0.0	5.7	16.8	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.0	11.1
1991	968	2,3,4,5	0.2	0.0	0.0	0.0	0.0	5.5	2.4	0.0	0.1	0.5	0.0	0.8	4.3	4.9	0.0	0.0	0.0	0.0	3.5	8.4	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.5	67.1
1992	878	2,3,4,5	0.0	0.0	0.0	0.5	0.0	18.2	2.6	0.0	2.2	0.0	0.0	2.1	6.0	5.7	0.0	0.0	0.0	0.0	7.9	40.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	13.4
1993	925	2,3,4,5	0.0	0.0	0.0	0.8	0.0	13.4	8.8	0.5	0.9	0.6	0.3	1.2	10.3	5.9	0.3	0.0	0.0	0.0	0.2	21.5	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	3.4	30.8
1994	478	2,3,4,5	2.9	0.0	0.0	0.6	0.0	7.3	5.6	0.0	1.3	0.0	0.0	1.0	8.8	0.0	0.0	0.0	0.0	0.0	2.1	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	63.0
1995	507	2,3,4,5	2.4	0.0	0.0	0.0	0.0	3.7	7.7	0.0	10.5	0.0	0.0	1.6	7.3	0.8	0.0	0.0	0.0	0.0	1.6	24.9	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	39.3
1996	842	2,3,4,5	1.1	0.0	0.0	0.0	0.0	1.1	6.8	0.0	8.2	0.0	0.0	0.5	8.7	0.0	0.0	0.0	0.0	0.0	0.0	26.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	2.6	44.8
1997	842	2,3,4,5	9.7	0.6	0.0	0.2	0.0	7.1	4.5	0.0	1.3	1.0	0.0	0.4	5.3	0.0	0.0	0.0	0.0	0.0	1.3	18.9	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.4	47.7
1998	1095	2,3,4,5	10.5	0.3	0.3	1.7	0.0	0.9	1.8	0.0	0.0	0.4	0.0	0.5	2.9	0.0	0.0	0.0	0.0	0.0	1.4	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	13.3	62.8
1999	679	2,3,4,5	0.6	1.0	0.0	0.0	0.0	3.2	7.2	0.0	0.4	0.3	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	3.8	72.0
2000	978	2,3,4,5	4.2	0.0	0.0	0.0	0.0	6.2	1.3	0.0	0.0	0.0	0.0	0.0	1.7	0.4	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.5	83.1
2001	306	3,4,5	2.0	0.0	0.0	0.0	0.0	5.2	3.9	0.0	0.0	0.0	0.0	0.0	4.9	0.3	0.0	0.0	0.0	0.0	1.0	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	1.0	66.0
2002	290	4,5	0.0	0.0	0.0	0.0	0.0	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	74.5
2003	13	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	135	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	535	2,3	0.9	1.9	0.0	0.0	0.0	14.0	3.2	0.0	0.0	0.0	0.0	0.0	5.8	3.9	0.0	0.0	0.0	0.0	2.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	4.1	54.4
2006	845	2,3,4	2.4	0.1	0.0	0.0	0.0	14.1	0.7	0.0	0.0	0.0	0.0	0.0	4.7	0.7	0.0	0.0	0.0	0.0	1.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	13.6	57.6
2007	775	2,3,4,5	1.0	1.2	0.0	0.0	0.0	15.2	3.9	0.0	1.0	0.0	0.0	0.0	14.5	1.9	0.0	0.0	0.0	0.0	3.6	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	5.7	41.8
2008	1192	2,3,4,5	2.3	0.0	0.0	0.0	0.0	4.8	3.4	0.0	0.0	0.0	0.0	0.0	7.3	0.1	0.0	0.0	0.0	0.0	0.0	12.1	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	3.9	62.3
2009	969	2,3,4,5	1.2	0.1	0.2	0.3	0.6	2.4	4.2	0.0	0.0	0.0	0.0	0.0	7.6	0.2	0.0	0.0	0.0	0.0	1.1	12.2	0.0	0.0	0.0	0.0	0.0	0.0	3.7	0.0	5.2	60.9
2010	857	2,3,4,5	1.1	0.0	0.0	0.0	0.0	8.3	8.1	0.0	0.0	0.7	0.0	0.0	9.3	2.5	0.5	0.0	0.0	0.0	2.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	1.3	53.6
2011	1314	2,3,4,5	1.4	0.2	0.0	0.0	0.0	4.9	7.5	0.0	0.0	3.0	0.0	0.0	7.8	0.7	0.2	0.0	0.0	0.0	1.1	5.6	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.2	2.8	63.2
2012	1076	2,3,4,5	1.6	0.3	0.0	0.3	0.0	4.0	1.9	0.0	0.0	0.5	0.0	0.0	7.3	0.3	0.0	0.0	0.0	0.0	0.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	8.1	69.8
2013	371	2,3,4,5	1.6	2.2	0.8	0.0	0.0	8.1	8.9	0.0	0.0	1.3	0.0	0.0	12.9	5.4	0.0	0.0	0.0	0.0	1.1	19.9	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	2.2	31.3
2014	753	2,3,4,5	4.4	0.9	0.0	0.8	0.3	9.0	9.6	0.0	0.0	2.4	0.0	0.0	21.9	1.7	0.5	0.0	0.4	0.0	1.2	26.7	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	2.1	16.2
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	694		1.0	0.0	0.0	0.5	0.0	11.7	5.2	1.4	3.3	0.2	0.2	1.9	8.1	4.0	0.1	0.0	0.0	0.0	3.5	19.8	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.7	37.5
96–98	926		7.1	0.3	0.1	0.7	0.0	3.0	4.4	0.0	3.2	0.4	0.0	0.4	5.6	0.0	0.0	0.0	0.0	0.0	0.9	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	5.8	51.8
99–08	796		2.1	0.4	0.0	0.0	0.0	8.1	3.4	0.0	0.2	0.0	0.0	0.0	6.7	0.6	0.0	0.0	0.0	0.0	1.1	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	4.8	63.8
09–15	890		1.9	0.6	0.2	0.2	0.1	6.1	6.7	0.0	0.0	1.3	0.0	0.0	11.2	1.8	0.2	0.0	0.1	0.0	1.3	13.1	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	3.6	49.2

[1] Estimates for this year can only be used for distribution of fishing mortalities because the escapement data are insufficient.

Appendix C. 49– Percent distribution of Columbia River Summers (Columbia River Summer) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery									Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WA	Puget Sd		SEAK			Canada		Southern US			Stra	Esc.
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S		
1979	205	2,3,4	14.	0.	1.	7.3	0.	17.	0.	3.4	8.3	1.5	2.	1.	3.	0.0	2.	0.0	1.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	3.4	0.0	3.4	28.
1980	358	3,4,5	31.	0.	0.	8.4	0.	16.	0.	3.9	1.1	0.0	0.	0.	0.	1.7	0.	0.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.6	0.0	1.7	34.
1981	338	4,5	8.6	0.	0.	0.9	0.	9.8	0.	5.9	0.0	7.7	1.	0.	0.	0.0	0.	0.3	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.9	0.0	6.8	55.
1982	24	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	6	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	30	2,3	0.0	0.	0.	3.3	0.	6.7	0.	13.	13.	0.0	0.	0.	0.	3.3	6.	0.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	13.	0.0	3.3	36.
1987	110	2,3,4	14.	0.	0.	5.5	0.	11.	0.	2.7	5.5	0.0	0.	0.	3.	14.	0.	8.2	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	6.4	0.0	3.6	20.
1988	291	2,3,4,	1.7	3.	0.	10.	2.	22.	4.	0.0	7.9	0.0	0.	1.	0.	3.4	0.	0.3	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	13.	2.7	0.0	26.
1989	707	2,3,4,	7.1	2.	0.	5.4	0.	16.	1.	0.6	0.3	0.6	0.	2.	2.	9.8	2.	4.7	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	7.5	0.0	0.0	37.
1990	861	2,3,4,	10.	0.	0.	7.8	0.	20.	0.	1.2	1.4	0.0	0.	0.	0.	3.5	1.	2.4	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	10.	0.2	0.5	37.
1991	558	2,3,4,	5.6	0.	0.	3.0	0.	8.4	0.	0.7	2.2	0.0	0.	1.	0.	3.2	1.	1.4	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	5.2	0.5	0.9	64.
1992	323	2,3,4,	16.	0.	0.	3.1	0.	14.	0.	1.9	0.9	0.0	0.	0.	0.	3.7	0.	2.5	0.	0.0	0.	1.	0.	0.	0.	0.	0.	0.	1.2	0.0	0.6	53.
1993	167	2,3,4,	9.6	0.	0.	1.8	0.	20.	2.	0.0	3.0	0.0	0.	0.	0.	4.2	1.	2.4	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	4.2	0.0	0.6	49.
1994	44	2,3,4,	11.	0.	0.	0.0	0.	0.0	0.	0.0	0.0	18.	0.	0.	0.	0.0	0.	0.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	4.5	0.0	0.0	65.
1995	174	2,3,4,	4.6	0.	0.	0.0	0.	9.8	0.	0.0	0.0	0.0	0.	1.	0.	1.7	0.	0.0	0.	0.0	1.	0.	0.	0.	0.	0.	0.	0.	0.0	0.0	0.0	81.
1996	359	2,3,4,	12.	0.	0.	2.2	0.	3.3	0.	0.0	3.6	0.0	0.	0.	2.	0.6	0.	2.8	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.0	2.2	1.4	66.
1997	1183	2,3,4,	9.9	0.	4.	0.3	1.	2.0	0.	0.0	0.4	0.0	0.	0.	0.	0.0	0.	3.6	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.2	0.5	0.1	77.
1998	1705	2,3,4,	9.0	0.	1.	0.1	1.	0.0	0.	0.0	0.1	0.2	0.	0.	0.	0.6	0.	1.1	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	1.0	0.8	0.2	83.
1999	987	2,3,4,	13.	0.	2.	0.6	1.	0.6	4.	0.0	0.5	1.0	0.	0.	1.	5.2	0.	3.5	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	1.0	2.5	0.0	61.
2000	2976	2,3,4,	22.	1.	3.	0.6	2.	4.2	4.	0.0	0.0	0.4	0.	0.	1.	0.9	1.	1.9	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.8	1.9	0.1	52.
2001	6989	2,3,4,	16.	2.	1.	0.6	1.	13.	2.	0.0	0.0	0.6	0.	0.	0.	7.4	2.	10.	1.	0.0	0.	1.	0.	0.	0.	0.	0.	0.	0.7	1.6	0.3	36.
2002	1045	2,3,4,	24.	0.	1.	13.	1.	15.	1.	0.0	0.0	0.3	0.	0.	0.	5.7	3.	3.6	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	1.0	2.3	0.3	24.
2003	7208	2,3,4,	29.	0.	1.	13.	1.	12.	0.	0.0	0.0	1.0	0.	0.	0.	3.2	0.	4.3	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	2.9	6.1	0.3	22.
2004	4372	2,3,4,	16.	0.	1.	6.1	1.	14.	1.	0.0	0.0	0.3	0.	0.	0.	5.5	0.	6.7	1.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	8.1	15.	0.1	20.
2005	8503	2,3,4,	11.	0.	0.	7.2	3.	12.	0.	0.0	0.0	0.1	0.	0.	0.	3.1	0.	4.4	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	8.0	8.9	0.0	39.
2006	3587	2,3,4,	12.	0.	0.	4.0	0.	12.	1.	0.0	0.1	0.5	0.	0.	0.	3.0	0.	0.4	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	13.	10.	0.0	39.
2007	8279	2,3,4,	6.4	1.	0.	0.8	1.	3.6	0.	0.0	0.5	0.2	0.	0.	0.	1.7	0.	0.9	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	5.7	10.	0.2	64.
2008	4991	2,3,4,	8.5	0.	0.	0.9	0.	6.4	2.	0.0	0.1	0.6	0.	0.	0.	2.9	0.	0.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	17.	9.8	0.2	47.
2009	4114	2,3,4,	8.8	0.	0.	1.5	0.	5.8	6.	0.0	0.0	0.3	0.	0.	1.	1.6	0.	0.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	16.	8.5	0.0	46.
2010	5999	2,3,4,	7.8	0.	1.	1.7	1.	6.1	0.	0.0	0.0	0.5	0.	0.	0.	5.0	0.	2.2	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	21.	8.4	1.4	41.
2011	4791	2,3,4,	10.	0.	0.	1.3	0.	3.0	2.	0.0	0.0	0.3	0.	0.	0.	1.3	1.	2.5	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	22.	13.	3.6	35.
2012	4255	2,3,4,	17.	0.	0.	4.2	1.	6.9	3.	0.0	0.0	0.6	0.	0.	0.	7.6	3.	5.2	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	12.	13.	4.4	17.
2013	4911	2,3,4,	7.4	0.	0.	2.4	0.	4.2	2.	0.0	0.0	0.5	0.	0.	0.	5.4	0.	3.8	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	15.	13.	3.9	38.
2014	3710	2,3,4,	10.	0.	0.	1.0	0.	9.7	0.	0.0	0.1	0.9	0.	0.	0.	5.4	1.	4.9	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	24.	13.	0.2	25.
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–	282		23.	0.	0.	7.8	0.	16.	0.	3.7	4.7	0.7	1.	0.	2.	0.8	1.	0.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	2.0	0.0	2.5	31.
85–	440		7.9	0.	0.	4.4	0.	16.	1.	0.6	2.2	0.1	0.	0.	0.	4.2	1.	2.0	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	6.1	0.5	0.4	50.
96–	1082		10.	0.	1.	0.9	1.	1.8	0.	0.0	1.4	0.1	0.	0.	0.	0.4	0.	2.5	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	0.4	1.2	0.6	75.
99–	5834		16.	0.	1.	4.7	1.	9.4	2.	0.0	0.1	0.5	0.	0.	0.	3.9	1.	3.6	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	6.0	7.0	0.2	40.
09–	4630		10.	0.	0.	2.0	0.	5.9	2.	0.0	0.0	0.5	0.	0.	0.	4.4	1.	3.1	0.	0.0	0.	0.	0.	0.	0.	0.	0.	0.	18.	11.	2.3	34.

Appendix C. 50– Percent distribution of Taku River total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	216	3,4	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	92.6
1980	305	3,4,5	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.3	1.0	0.0	0.0	0.0	0.0	0.0	88.2
1981	452	3,4,5,6	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	93.6
1982	273	3,4,5,6	7.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0	1.8	0.0	0.0	0.0	0.0	0.0	87.9
1983	175	3,4,5,6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	4.0	0.0	0.0	0.0	0.0	0.6	91.4
1984	385	3,4,5,6	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	4.4	2.1	0.0	0.0	0.0	0.0	0.0	81.8
1985	347	4,5,6	2.9	0.0	5.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.4	0.0	0.0	0.0	0.0	0.0	86.5
1986	169	5,6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	94.7
1987	52	6	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	67	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	178	3,4	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.6	1.7	0.0	0.0	0.0	0.0	0.0	91.0
1996	389	3,4,5	1.5	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	3.1	0.0	0.0	0.0	0.0	0.0	92.0
1997	652	3,4,5,6	0.3	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	7.5	2.5	0.0	0.0	0.0	0.0	0.0	86.3
1998	407	3,4,5,6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.0	0.0	0.0	0.0	94.3
1999	648	3,4,5,6	1.9	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	1.4	4.8	0.0	0.0	0.0	0.0	0.0	86.4
2000	1169	3,4,5,6	1.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.1	5.5	0.0	0.0	0.0	0.0	0.0	89.8
2001	1047	3,4,5,6	3.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	3.1	5.3	0.0	0.0	0.0	0.0	0.1	85.6
2002	958	3,4,5,6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	5.6	5.0	0.0	0.0	0.0	0.0	0.0	84.6
2003	981	3,4,5,6	2.1	0.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.1	7.3	0.0	0.0	0.0	0.0	0.0	87.3
2004	2263	3,4,5,6	3.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	2.7	3.8	0.0	0.0	0.0	0.0	0.0	85.3
2005	1405	3,4,5,6	2.8	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.5	2.3	11.1	0.0	0.0	0.0	0.0	0.0	55.4
2006	998	3,4,5,6	3.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.9	2.3	12.0	0.0	0.0	0.0	0.0	0.0	67.3
2007	388	3,4,5,6	7.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	0.3	9.5	0.0	0.0	0.0	0.0	0.0	75.5
2008	567	3,4,5,6	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.4	6.2	0.0	0.0	0.0	0.0	0.2	84.0
2009	350	3,4,5,6	8.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0	2.0	16.3	0.0	0.0	0.0	0.0	0.0	60.9
2010	224	3,4,5,6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	13.4	0.0	0.0	0.0	0.0	0.0	79.0
2011	333	3,4,5,6	6.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	2.1	7.8	0.0	0.0	0.0	0.0	0.0	78.4
2012	272	3,4,5,6	9.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	11.0	0.0	0.0	0.0	0.0	0.0	77.2
2013	344	3,4,5,6	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.2	1.2	3.8	0.0	0.0	0.0	0.0	0.0	89.0
2014	345	3,4,5,6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	9.6	0.0	0.0	0.0	0.0	0.0	87.0
2015	371	4,5,6	7.0	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.2	5.7	0.0	0.0	0.0	0.0	0.0	82.2
79–84	318		5.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.7	2.0	0.0	0.0	0.0	0.0	0.1	88.6
85–95	347		2.9	0.0	5.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.4	0.0	0.0	0.0	0.0	0.0	86.5
96–98	483		0.9	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.5	3.4	0.0	0.0	0.0	0.0	0.0	90.9
99–08	1042		3.4	0.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	2.0	7.1	0.0	0.0	0.0	0.0	0.0	80.1
09–15	320		6.1	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.4	9.6	0.0	0.0	0.0	0.0	0.0	79.1

Appendix C. 51–. Percent distribution of Unuk River total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	28	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	579	3,4	10.5	2.8	3.8	0.7	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.8
1987	409	3,4,5	10.5	0.2	3.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.4
1988	414	3,4,5,6	6.8	1.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	90.3
1989	167	3,4,5,6	15.6	3.6	0.0	2.4	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.8
1990	180	4,5,6	27.8	0.6	11.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.2
1991	138	5,6	23.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	70.3
1992	144	6	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	1	3	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	32	3,4	9.4	12.5	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65.6
1997	160	3,4,5	11.9	6.9	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	76.3
1998	478	3,4,5,6	9.6	2.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.6	83.7
1999	766	3,4,5,6	7.8	0.7	12.8	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.5	75.8
2000	1093	3,4,5,6	9.8	2.4	9.1	0.0	2.0	0.0	0.0	0.0	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	75.4
2001	1423	3,4,5,6	8.3	0.6	4.4	0.1	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	1.1	83.6
2002	967	3,4,5,6	8.8	0.6	4.9	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.7	82.8
2003	705	3,4,5,6	10.9	0.1	5.4	1.4	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.3	79.0
2004	730	3,4,5,6	7.3	15.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	72.6
2005	751	3,4,5,6	21.8	2.4	7.9	0.3	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.1	62.6
2006	821	3,4,5,6	11.7	7.4	4.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	73.6
2007	679	3,4,5,6	16.3	6.9	3.2	0.3	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	71.9
2008	364	3,4,5,6	15.9	4.1	0.8	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	74.5
2009	400	3,4,5,6	14.5	1.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.3	77.5
2010	427	3,4,5,6	18.0	0.9	6.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	4.2	69.6
2011	283	3,4,5,6	20.1	4.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	72.1
2012	202	3,4,5,6	35.6	7.9	6.9	0.0	1.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.5	0.0	0.0	0.0	0.0	0.0	0.5	41.6
2013	187	3,4,5,6	18.2	13.4	2.7	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	61.0
2014	202	3,4,5,6	26.7	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.4
2015	218	4,5,6	22.9	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	4.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	65.6
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	292		15.2	1.3	4.0	1.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	77.4
96–98	319		10.7	4.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.3	80.0
99–08	830		11.9	4.1	5.7	0.4	0.6	0.0	0.0	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	75.2
09–15	274		22.3	5.7	3.3	0.1	0.2	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.2	1.0	0.0	0.0	0.0	0.0	0.0	0.7	64.0

Appendix C. 52– Percent distribution of Columbia River Upriver Bright (Columbia River Upriver Brights) total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	5531	2,3,4	18.5	0.3	0.6	7.7	0.0	12.9	0.0	4.0	3.7	0.1	0.4	0.7	0.1	1.2	1.1	0.1	0.1	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	22.1	0.5	0.0	25.5
1980	3592	2,3,4,5	21.4	0.8	0.6	6.9	0.0	7.8	0.0	1.7	1.8	0.1	0.5	0.2	0.6	1.1	0.7	0.1	0.1	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	6.3	0.7	0.0	48.2
1981	1854	2,3,4,5	21.4	0.3	0.5	7.3	0.0	5.0	0.2	1.3	1.7	0.0	0.2	0.6	0.2	0.5	1.1	0.2	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.4	0.0	0.1	54.8
1982	1433	2,3,4,5	8.8	0.3	0.3	4.0	0.0	5.2	0.0	0.3	1.2	0.0	0.0	0.5	0.1	0.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.2	75.4
1983	922	2,3,4,5	23.3	0.2	0.0	11.7	0.0	3.9	0.0	2.1	3.5	0.2	0.0	0.1	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	1.2	45.6
1984	1706	2,3,4,5	21.5	0.9	0.2	11.0	0.2	8.8	0.0	2.5	1.3	0.0	0.0	0.4	0.4	0.0	0.0	0.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	16.4	1.0	1.3	33.2
1985	2533	2,3,4,5	15.2	2.3	0.2	7.8	0.0	7.3	0.1	0.2	1.6	0.0	0.0	1.7	0.2	0.2	0.4	0.4	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	26.5	2.6	1.0	31.8
1986	2951	2,3,4,5	9.1	1.3	0.1	6.9	0.0	11.3	0.2	1.5	1.4	0.0	0.0	0.4	0.3	0.9	0.2	0.6	0.1	0.1	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	28.2	2.6	0.2	33.8
1987	3713	2,3,4,5	17.5	1.6	0.4	11.7	0.0	7.9	0.5	1.9	0.6	0.0	0.0	0.0	0.1	0.4	0.4	1.0	0.1	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	33.0	2.9	0.0	19.9
1988	2983	2,3,4,5	11.1	1.6	0.4	8.8	0.0	12.0	0.0	0.5	0.5	0.0	0.0	0.1	0.0	0.8	0.3	1.1	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	42.3	2.2	0.2	17.5
1989	1305	2,3,4,5	14.7	0.0	0.2	15.5	0.5	8.2	0.0	0.2	0.7	0.0	0.0	0.7	0.0	0.8	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.1	1.5	0.2	15.9
1990	706	2,3,4,5	14.2	0.0	1.0	10.9	0.0	8.8	0.0	0.7	0.7	0.0	0.0	0.0	0.0	1.3	0.4	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	32.4	1.1	0.0	27.6
1991	290	2,3,4,5	7.6	2.1	3.4	6.9	0.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3	3.8	0.0	46.6
1992	322	2,3,4,5	3.7	1.6	0.0	3.7	0.0	12.4	0.0	0.0	2.5	0.0	0.0	0.6	1.2	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.1	5.9	0.0	51.6
1993	593	2,3,4,5	15.2	0.0	0.0	7.9	0.5	19.6	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.5	1.2	1.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	13.8	3.9	0.0	35.4
1994	975	2,3,4,5	10.9	2.5	0.0	8.2	1.2	7.2	0.6	0.2	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	8.6	0.0	46.4
1995	738	2,3,4,5	10.2	0.1	2.4	2.7	0.0	7.2	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	3.4	0.0	62.7
1996	788	2,3,4,5	4.2	0.0	0.0	1.4	0.0	0.8	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.1	0.0	0.8	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.3	0.0	21.7	5.1	0.0	64.8
1997	1039	2,3,4,5	13.4	0.6	3.2	5.0	0.0	0.5	0.1	0.6	0.0	0.5	0.0	0.0	0.4	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.6	9.8	0.0	45.3
1998	726	2,3,4,5	11.0	3.7	2.8	2.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	8.8	0.1	56.2
1999	1413	2,3,4,5	14.2	0.0	2.8	7.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.2	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.2	7.9	0.2	51.6
2000	959	2,3,4,5	25.7	0.1	3.0	0.0	0.0	1.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.1	4.5	0.3	42.1
2001	1306	2,3,4,5	6.4	0.0	1.4	0.0	0.0	1.1	0.7	0.0	0.0	0.6	0.0	0.0	0.0	1.8	0.2	0.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.4	8.1	1.0	62.6
2002	1755	2,3,4,5	16.6	0.0	2.7	1.8	0.9	1.7	0.0	0.0	0.0	0.0	0.0	1.5	1.2	1.6	0.9	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	8.4	1.0	44.5
2003	2339	2,3,4,5	14.4	1.2	0.5	5.5	1.0	0.8	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.5	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7	6.8	0.4	52.8
2004	2466	2,3,4,5	11.1	1.9	0.5	3.9	1.2	2.1	0.0	0.0	0.0	0.3	0.0	0.0	0.2	1.0	1.3	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	15.2	6.1	0.0	54.8
2005	2608	2,3,4,5	14.9	1.4	1.0	9.6	2.2	3.6	2.3	0.0	0.0	1.2	0.0	0.0	1.6	0.5	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	6.9	0.0	39.8
2006	1694	2,3,4,5	14.0	1.7	1.4	7.0	1.9	1.5	1.7	0.0	0.0	0.0	0.0	0.0	0.3	1.0	0.4	0.4	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	13.0	15.2	0.1	40.1
2007	590	2,3,4,5	11.5	0.2	1.0	5.6	5.9	1.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4	17.6	0.0	43.1
2008	867	2,3,4,5	13.3	0.5	0.0	3.0	1.8	1.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1	7.8	0.3	47.3
2009	1340	2,3,4,5	22.1	1.7	1.8	9.3	1.3	0.6	0.9	0.0	0.0	0.0	0.0	0.0	1.0	0.7	1.1	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	19.5	5.9	0.3	32.8
2010	1738	2,3,4,5	5.1	0.4	2.5	1.7	1.3	0.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.6	4.5	0.7	58.2
2011	3068	2,3,4,5	10.7	0.2	0.8	3.0	2.3	1.6	2.5	0.0	0.0	0.9	0.0	0.0	0.3	1.3	0.9	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.6	10.1	0.0	41.3
2012	4866	2,3,4,5	7.4	0.6	0.5	2.8	0.7	1.0	1.6	0.0	0.0	0.2	0.0	0.0	0.3	2.1	0.9	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.6	17.9	0.1	50.7
2013	14216	2,3,4,5	5.4	0.0	0.4	2.5	0.9	0.8	1.5	0.0	0.0	0.3	0.0	0.0	0.6	1.8	0.9	0.9	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	24.8	10.6	0.2	48.2
2014	16302	2,3,4,5	14.8	0.3	1.2	5.2	0.7	2.4	0.3	0.0	0.0	0.3	0.0	0.0	0.1	1.3	0.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	6.1	0.1	47.3
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	2506		19.1	0.5	0.4	8.1	0.0	7.3	0.0	2.0	2.2	0.1	0.2	0.4	0.3	0.7	0.6	0.1	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	9.8	0.4	0.5	47.1
85–95	1555		11.8	1.2	0.7	8.3	0.2	10.2	0.1	0.5	0.9	0.0	0.0	0.3	0.2	0.6	0.4	0.4	0.1	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	24.9	3.5	0.1	35.4
96–98	851		9.5	1.4	2.0	3.0	0.1	0.5	0.0	0.2	0.1	0.2	0.0	0.0	0.1	0.0	0.0	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.0	18.6	7.9	0.0	55.5
99–08	1600		14.2	0.7	1.4	4.4	1.6	1.5	1.3	0.0	0.0	0.2	0.0	0.2	0.4	0.8	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	8.9	0.3	47.9
09–15	6922		10.9	0.5	1.2	4.1	1.2	1.2	1.4	0.0	0.0	0.3	0.0	0.0	0.4	1.6	1.1	0.3	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	19.7	9.2	0.2	46.4

Appendix C. 53– Percent distribution of University Of Washington Accelerated total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	4362	2,3,4	0.0	0.0	0.0	0.0	0.0	14.4	0.0	0.3	0.0	0.0	1.5	3.6	4.1	1.8	0.5	0.0	0.0	0.5	4.3	44.5	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	23.6
1980	6318	2,3,4,5	0.0	0.0	0.0	0.1	0.0	7.1	0.0	0.2	0.0	0.0	0.2	1.1	3.7	1.4	0.0	0.0	0.0	0.1	8.4	62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.1	0.0	15.2
1981	4571	2,3,4,5	0.0	0.0	0.0	0.5	0.0	9.4	0.0	0.0	0.0	0.0	0.5	3.3	4.1	2.1	0.3	0.0	0.0	0.2	7.5	55.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	15.1
1982	3725	2,3,4,5	0.0	0.1	0.0	0.0	0.0	17.2	0.2	0.3	0.1	0.0	0.3	0.8	3.5	2.6	0.4	0.1	0.0	0.9	10.0	33.8	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	28.5
1983	3586	2,3,4,5	0.0	0.0	0.0	0.1	0.0	10.4	0.1	0.9	0.1	0.0	0.7	1.3	2.9	1.3	0.2	0.0	0.0	0.3	14.2	41.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	0.0	0.2	21.7
1984	1969	2,3,4,5	0.0	0.0	0.0	0.0	0.0	18.7	0.0	0.6	0.0	0.0	0.4	1.0	4.1	1.6	0.0	0.2	0.0	1.2	15.8	31.5	0.0	0.0	0.0	0.0	0.2	0.0	3.1	0.0	0.1	21.5
1985	855	2,3,4,5	0.0	0.0	0.0	0.0	0.0	14.5	0.9	0.0	0.4	0.0	0.0	4.7	5.0	2.1	0.0	0.0	0.0	0.6	4.6	30.4	0.0	0.0	0.0	0.0	0.0	0.0	8.2	0.0	0.1	28.5
1986	891	2,3,4,5	0.0	0.0	0.0	0.0	0.0	19.8	1.0	0.0	0.6	0.0	0.0	7.2	3.9	1.7	0.0	0.0	0.0	3.0	14.0	25.1	0.0	0.0	0.0	0.0	0.0	0.0	4.8	0.0	0.1	18.7
1987	1009	3,4,5	0.5	0.0	0.0	0.1	0.0	11.8	0.7	0.4	0.0	0.0	1.4	0.3	5.4	4.2	0.2	0.3	0.0	2.6	18.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0	24.7	0.0	0.1	13.8
1988	617	4,5	0.0	0.0	0.0	1.3	0.0	19.3	0.0	1.1	0.5	0.0	0.0	0.5	4.7	8.4	0.2	0.3	0.0	0.3	8.9	12.3	0.0	0.0	0.0	0.0	0.0	0.0	24.8	0.0	0.0	17.3
1989	44	5	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2006	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2007	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2008	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2009	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2010	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2011	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2012	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2013	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2014	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	4088		0.0	0.0	0.0	0.1	0.0	12.9	0.1	0.4	0.0	0.0	0.6	1.9	3.7	1.8	0.2	0.0	0.0	0.5	10.0	44.8	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	20.9
85–95	918		0.2	0.0	0.0	0.0	0.0	15.3	0.9	0.1	0.3	0.0	0.5	4.1	4.8	2.7	0.1	0.1	0.0	2.1	12.3	23.6	0.0	0.0	0.0	0.0	0.0	0.0	12.6	0.0	0.1	20.4
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09–15	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Appendix C. 54– Percent distribution of White River Spring Yearling total fishing mortalities among fisheries and escapement.

Catch Year	Est # of CWT	Ages	AABM Fishery							ISBM Fishery													Terminal Fishery								Escapement	
			SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
			T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1986	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1990	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1991	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1992	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1993	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1994	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1995	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1996	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1997	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1998	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1999	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2001	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2002	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2003	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2004	173	2	Failed Criteria			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2005	1039	2,3	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.2	87.4
2006	1045	2,3,4	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	0.1	0.0	0.0	0.0	0.2	17.8	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.1	75.6
2007	774	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.5	0.0	0.0	0.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.1	72.7
2008	197	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.6	0.0	0.0	0.0	0.0	0.0	0.0	6.6	0.0	0.0	84.8
2009	209	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.9	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	1.0	82.8
2010	212	2,3,4,5	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	7.5	0.0	0.0	88.2
2011	216	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6	0.0	0.5	94.0
2012	202	2,3,4,5	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	6.9	0.0	0.0	0.0	0.0	0.0	0.0	15.8	0.0	0.0	73.3
2013	94	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.8	0.0	0.0	86.2
2014	123	2,3,4,5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	11.4	0.0	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	81.3
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85–95	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
96–98	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99–08	672		0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.2	0.0	0.0	0.0	0.2	15.3	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.1	77.7
09–15	192		0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	7.6	0.0	0.3	83.9

Appendix C. 55– Percent distribution of Willamette Spring (Willamette River Hatchery) total fishing mortalities among fisheries and escapement.

	Est		AABM Fishery							ISBM Fishery												Terminal Fishery								Escapement	
Catch	# of		SEAK			NBC		WCVI		NBC & CBC			Southern BC			N Falcon		S Falcon		WAC	Puget Sd		SEAK			Canada		Southern US				
Year	CWT	Ages	T	N	S	T	S	T	S	T	N	S	T	N	S	T	S	T	S	N	N	S	T	N	S	N	S	T	N	S	Stray	Esc.
1979	2082	3,4	5.5	0.1	0.2	10.0	0.0	6.6	0.0	0.4	0.7	0.0	0.0	0.0	0.0	0.9	1.1	1.4	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.9	11.3	0.0	60.9
1980	5852	3,4,5	4.3	0.5	0.2	5.9	0.0	2.8	0.0	0.2	0.4	0.1	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	8.1	0.0	76.1
1981	8156	3,4,5,6	5.3	0.3	0.1	6.1	0.0	1.4	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	10.8	0.0	73.4
1982	3705	3,4,5,6	5.2	0.6	0.1	5.6	0.0	3.9	0.0	0.1	0.2	0.1	0.0	0.0	0.0	1.0	1.4	0.1	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	7.0	25.6	0.0	48.9
1983	2593	3,4,5,6	16.5	0.1	0.0	10.5	0.0	1.6	0.0	0.2	0.0	0.0	0.3	0.0	0.3	1.3	0.3	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	6.0	22.1	0.0	39.7
1984	4000	3,4,5,6	4.6	0.2	0.4	2.1	0.1	1.9	0.0	0.1	0.1	0.0	0.0	0.0	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	6.4	25.0	0.0	57.8
1985	2549	3,4,5,6	7.0	0.2	0.0	0.5	0.0	0.5	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	19.8	0.0	53.5
1986	629	3,4,5,6	3.3	0.3	0.0	6.2	0.0	4.5	0.5	0.5	1.9	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	17.8	0.0	54.7
1987	686	3,4,5,6	15.9	0.0	0.6	12.0	0.0	1.3	0.9	1.0	0.7	0.0	0.0	0.0	0.0	1.7	0.0	1.2	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	4.7	26.2	0.0	33.2
1988	2013	3,4,5,6	10.7	0.3	0.5	6.7	0.0	3.5	0.0	0.7	0.0	0.0	0.0	0.0	0.0	1.7	0.0	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	28.0	0.1	40.7
1989	2681	3,4,5,6	5.2	0.0	0.2	1.8	0.0	1.5	0.3	0.0	0.1	0.0	0.0	0.1	0.4	1.6	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	12.3	20.4	0.0	55.7
1990	2668	3,4,5,6	8.5	0.6	0.2	1.6	0.0	2.3	0.6	0.2	0.3	0.3	0.0	0.1	0.0	1.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.3	27.5	0.0	40.2
1991	2895	3,4,5,6	3.7	1.5	0.6	1.7	0.0	0.3	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	43.0	0.0	42.1
1992	2721	3,4,5,6	6.0	4.6	0.2	1.4	0.0	2.3	0.1	0.0	0.1	0.1	0.0	0.0	0.0	2.2	0.2	0.0	0.1	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	5.3	28.8	0.0	48.0
1993	5080	3,4,5,6	11.2	0.0	0.0	1.3	0.1	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	42.0	0.0	41.3
1994	4910	3,4,5,6	5.4	0.7	0.7	0.8	0.1	0.8	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.9	38.4	0.5	47.1
1995	4367	3,4,5,6	4.5	0.1	0.3	1.2	0.0	0.5	0.1	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3	42.6	0.1	49.8
1996	3645	3,4,5,6	2.2	0.0	0.0	0.2	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.8	33.9	0.4	62.1
1997	2218	3,4,5,6	4.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	15.7	0.1	78.4
1998	1575	3,4,5,6	5.1	0.2	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	16.6	0.0	77.0
1999	1787	3,4,5,6	7.4	0.0	0.7	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	14.4	0.2	75.7
2000	6679	3,4,5,6	11.5	0.1	0.7	0.1	0.4	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	28.6	0.0	55.1
2001	34880	3,4,5,6	1.5	0.0	0.1	0.1	0.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	3.4	24.7	0.0	69.1
2002	20156	3,4,5,6	2.0	0.1	0.1	1.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.2	21.9	0.0	57.9
2003	7189	3,4,5,6	5.2	0.0	0.1	0.4	0.1	2.2	0.2	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	19.9	0.0	70.0
2004	7210	3,4,5,6	3.5	0.3	0.1	0.7	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.8	23.7	0.0	58.7
2005	3190	3,4,5,6	2.8	0.0	0.1	0.3	0.3	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.1	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	4.7	20.7	0.0	64.6
2006	1992	3,4,5,6	3.6	0.0	0.0	0.4	0.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	7.6	26.3	0.0	55.5
2007	1575	3,4,5,6	4.8	0.2	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7	18.3	0.2	69.8
2008	2192	3,4,5,6	1.8	0.1	0.0	0.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.2	12.5	0.3	64.1
2009	4131	3,4,5,6	3.3	0.0	0.0	0.2	0.1	0.7	1.8	0.0	0.0	0.1	0.0	0.0	0.8	0.3	0.1	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	7.5	20.5	0.0	64.1
2010	11584	3,4,5,6	2.9	0.0	0.1	0.5	0.2	0.5	0.1	0.0	0.0	0.1	0.0	0.0	0.0	1.9	0.2	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.7	33.0	0.1	56.7
2011	7812	3,4,5,6	4.1	0.0	0.2	0.8	0.2	1.1	0.1	0.0	0.0	0.1	0.0	0.0	0.1	0.9	0.2	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	5.1	41.2	0.2	45.6
2012	5979	3,4,5,6	6.4	0.0	0.3	0.3	0.2	3.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.8	0.4	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	4.8	37.1	0.6	44.0
2013	6206	3,4,5,6	2.4	0.0	0.6	0.4	0.1	0.7	0.3	0.0	0.0	0.1	0.0	0.0	0.3	1.0	0.3	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	28.6	0.0	60.1
2014	14516	3,4,5,6	4.6	0.2	0.2	0.7	0.1	3.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.6	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	20.5	0.0	65.1
2015	NA		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79–84	4861		7.2	0.3	0.2	6.1	0.0	2.3	0.0	0.2	0.2	0.0	0.1	0.0	0.1	0.9	0.5	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.2	18.3	0.0	59.2
85–95	2836		7.4	0.8	0.3	3.2	0.0	1.7	0.3	0.3	0.3	0.0	0.0	0.0	0.1	1.0	0.1	0.1	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	7.7	30.4	0.1	46.0
96–98	2479		3.9	0.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.7	22.1	0.2	72.5
99–08	8685		4.4	0.1	0.2	0.3	0.2	2.1	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.5	0.1	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	6.5	21.1	0.1	64.1
09–15	8371		3.9	0.1	0.2	0.5	0.1	1.5	0.4	0.0	0.0	0.1	0.0	0.0	0.2	1.2	0.3	0.2	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	4.8	30.2	0.2	55.9

APPENDIX I: FISHERY EXPLOITATION RATE INDICES BY STOCK, AGE AND FISHERY, BASED ON CWT DATA

LIST OF APPENDIX I TABLES

Appendix I1. Alaska troll Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data. 71

Appendix I2. Landed catch exploitation rate indices by stock and age in the Alaska troll fishery, based on CWT data. Base period is 1979–1982. 72

Appendix I3. Alaska troll Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data.. 74

Appendix I4. . Total Mortality exploitation rate indices by stock and age in the Alaska troll fishery, based on CWT data. Base period is 1979–1982. 75

Appendix I5. Landed catch exploitation rate indices by stock and age in the NBC troll fishery, based on CWT data. Base period is 1979–1982. 74

Appendix I6. NBC troll fishery Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data. 75

Appendix I7. Total mortality exploitation rate indices by stock and age in the NBC troll fishery, based on CWT data. Base period is 1979–1982. 77

Appendix I8. NBC troll fishery Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data. 78

Appendix I9. Landed catch exploitation rate indices by stock and age in the WCVI troll fishery, based on CWT data. Base period is 1979–1982. 79

Appendix I10. WCVI troll fishery Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data. 80

Appendix I11. Total mortality exploitation rate indices by stock and age in the WCVI troll fishery, based on CWT data. Base period is 1979–1982. 81

Appendix I12. WCVI troll fishery Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data. 82

Appendix I1. Alaska troll Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data.

YEAR	SPFI	WIN/SPR	JUNE OUT	JUNE IN	JULY OUT	JULY IN	FALL
1979	0.78	1.18	1.05	0.52	0.71	0.37	0.71
1980	1.30	0.63	0.95	1.46	1.58	1.86	1.58
1981	1.13	1.22	1.11	0.92	1.09	0.87	1.09
1982	0.79	0.97	0.89	1.10	0.62	0.90	0.62
1983	0.87	1.03	0.60	0.66	1.24	0.80	1.24
1984	0.62	0.35	0.95	1.13	0.53	0.27	0.53
1985	0.67	0.44	0.60	0.86	0.82	0.69	0.82
1986	0.45	0.43	0.16	0.41	1.25	0.53	1.25
1987	0.47	0.57	0.17	0.57	0.62	1.27	0.62
1988	0.41	1.34	0.00	0.14	0.64	1.14	0.64
1989	0.50	0.81	0.20	0.44	0.54	0.49	0.54
1990	0.69	0.62	0.11	0.90	1.14	1.06	1.14
1991	0.60	1.31	0.22	0.92	0.78	0.49	0.78
1992	0.38	1.00	0.06	0.51	0.40	0.21	0.40
1993	0.46	0.72	0.02	0.28	0.91	0.24	0.91
1994	0.40	0.64	0.04	0.12	0.67	0.15	0.67
1995	0.48	0.45	0.05	0.33	0.78	0.89	0.78
1996	0.42	0.55	0.09	0.60	0.55	0.47	0.55
1997	0.59	0.62	0.15	0.59	1.48	0.08	1.48
1998	0.39	0.79	0.05	0.15	0.94	0.37	0.94
1999	0.57	0.78	0.11	0.26	0.95	0.11	0.95
2000	0.44	0.86	0.09	0.10	1.43	0.05	1.43
2001	0.39	0.55	0.07	0.15	0.64	0.12	0.64
2002	0.51	0.41	0.06	0.12	1.12	0.15	1.12
2003	0.46	0.69	0.06	0.14	0.87	0.31	0.87
2004	0.41	0.82	0.07	0.17	0.97	0.28	0.97
2005	0.47	0.92	0.11	0.23	1.24	0.40	1.24
2006	0.62	1.51	0.12	0.70	1.40	0.11	1.40
2007	0.60	1.26	0.15	0.92	1.18	0.18	1.18
2008	0.45	0.83	0.08	0.77	0.70	0.09	0.70
2009	0.57	0.70	0.15	0.34	1.07	0.15	1.07
2010	0.36	1.12	0.04	0.27	0.73	0.09	0.73
2011	0.38	1.02	0.05	0.26	0.83	0.13	0.83
2012	0.64	1.62	0.10	0.19	1.16	0.10	1.16
2013	0.35	0.79	0.09	0.45	0.51	0.15	0.51
2014	0.57	1.26	0.08	0.52	1.02	0.14	1.02

ER Stock Identifiers			
Alaska Southeast	Age 4	Age 5	Age 6
Quinsam	Age 4	Age 5	
Robertson Creek	Age 3	Age 4	Age 5
Salmon River Hatchery	Age 4	Age 5	
Columbia Upriver Brights	Age 4	Age 5	
Willamette Spring Hatchery	Age 4	Age 5	

Appendix I2. Landed catch exploitation rate indices by stock and age in the Alaska troll fishery, based on CWT data. Base period is 1979–1982.

	ER Stock Identifiers[1]														
Year	AKS Age 4	AKS Age 5	AKS Age 6	QUI Age 4	QUI Age 5	RBT Age 3	RBT Age 4	RBT Age 5	SRH Age 3	SRH Age 4	SRH Age 5	URB Age 4	URB Age 5	WSH Age 4	Fishery Index
1979				0.23	0.78	0.85	0.89	1.24	1.04			1.00		0.47	0.95
1980	1.91			1.15	0.67	1.23	0.99	0.84		1.60		1.01	1.17	0.89	1.13
1981	0.62	1.10		1.21	1.02	1.29	1.21	1.14	0.96		1.00	1.29	1.22	1.16	1.10
1982	0.47	0.90	1.00	1.41	1.53	0.63	0.92	0.78		0.40		0.70	0.61	1.48	0.83
1983	0.46	0.60		2.55	2.40	0.76	0.99	1.22	0.72	0.44	0.58	1.51		2.02	1.00
1984	0.34	0.69	0.71	1.21	2.24	0.89	0.90	0.63		0.39	0.50	1.33	1.46	0.76	0.83
1985	0.44	0.60	1.14	1.95	2.47	0.90	0.52	0.87			0.97	1.01	1.07	2.06	0.95
1986	0.39	0.49	0.51	1.21	1.88		0.61	0.46		0.78		0.73	0.71		0.65
1987	0.17	0.66	1.07	1.39	1.59	0.36		0.89	0.30	0.23	0.59	0.83	0.92	1.89	0.78
1988	0.32	0.62	1.63	1.31	1.01	0.07	0.37			0.32	0.60	0.44	0.68	0.96	0.67
1989	0.24	0.53	1.01	1.30	1.71	0.23	0.32	0.37	0.04	0.20	0.67	0.32	0.73	0.57	0.57
1990	0.73	0.54	0.63	1.93	1.23	0.67	0.42	0.43	0.56	0.33	0.54	0.89	0.53	1.31	0.62
1991	0.26	0.98	0.86	1.07	1.09	0.30	0.50	0.46	0.56	0.51	0.75		0.58	0.62	0.66
1992	0.05	0.45	1.30	1.07	1.38	0.09	0.35	0.52	0.07	0.17	0.12	0.23		0.28	0.47
1993	0.14	0.45	0.71			0.13	0.40	0.47	0.26	0.23	0.52	0.40		1.13	0.44
1994	0.12	0.29	0.75	0.50		0.31	0.34	0.49	0.16	0.29	0.37	0.35	0.69	0.26	0.42
1995	0.37	0.49	0.45	0.92			0.46	0.36	0.54	0.46	0.33		0.61	0.45	0.46
1996	0.13	0.54	0.78			0.38		0.35	0.35	0.41	0.78	0.33		0.10	0.49
1997	0.12	0.61	0.92	0.96		0.23	0.60		0.94	1.14	0.78	0.63		0.69	0.69
1998	0.19	0.54	1.03	1.38		0.41	0.44	0.42	0.20	0.40	0.29		0.74	0.81	0.54
1999	0.25	0.44	1.19	1.39	0.73		0.24	0.35	0.31	0.56	0.56	0.57		0.66	0.54
2000	0.25	0.54	1.01	1.12			0.10	0.41	0.78	0.77	0.80	1.02	1.08	0.77	0.64
2001	0.15	0.38	0.67	0.88	0.73	0.19			0.48	0.62	0.72	0.47		0.21	0.53
2002	0.19	0.27	0.53	1.21	1.66	0.11	0.40		1.34	0.84	0.93	0.90	1.10	0.36	0.68
2003	0.15	0.40	0.67	1.23	1.95	0.24	0.33	0.36	0.16	0.51	0.70	0.63	0.67	0.60	0.56
2004	0.34	0.42	0.64	0.74	0.80	0.35	0.50	0.41	0.87	0.56	0.68	0.63	0.69	0.46	0.55
2005	0.50	0.47	0.78	1.58	1.90	0.04	0.44	0.60	1.82	0.80	0.68	0.69	0.97	0.47	0.71
2006	0.44	0.96	0.89	1.81	1.61	0.38	0.30	0.47		0.93	0.93	0.77	0.67	0.71	0.76
2007	0.37	0.85	1.61	1.67		0.10	0.45	0.34	0.09	0.61	0.98	1.17		0.79	0.78
2008	0.14	0.58	1.13	0.87		0.43	0.20	0.34	0.53	0.56				0.22	0.49
2009	0.27	0.44	0.77	0.86		0.08	0.47	0.07	0.52	0.76	0.65	1.32		0.63	0.52
2010	0.14	0.53	0.87		1.24	0.08	0.37	0.50	0.70	0.75	0.69		0.71	0.49	0.58
2011	0.19	0.40	1.00	0.78		0.02	0.39		0.47	0.68	0.66	0.71		0.63	0.56
2012	0.29	0.63	1.69	1.37	1.90	0.00	0.34	0.51	0.22	1.09	0.61	1.04	1.05	0.73	0.80
2013	0.13	0.44	1.06	0.89	1.43	0.16	0.38	0.71	0.04	0.26	0.27	0.62		0.23	0.54
2014	0.28	0.71	1.61	1.08		0.36	0.68		0.09	0.45	0.31	0.97	0.89	0.68	0.73

[1] Stock Identifiers: AKS = ALASKA SPRING; QUI = QUINSAM; RBT = ROBERTSON CREEK; SRH = SALMON RIVER HATCHERY; URB = COLUMBIA UPRIVER BRIGHT; WSH = WILLAMETTE SPRING

Appendix I3. Alaska troll Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data.

YEAR	SPFI	WIN/SPR	JUNE OUT	JUNE IN	JULY OUT	JULY IN	FALL
1979	0.76	1.14	1.04	0.51	0.68	0.37	0.68
1980	1.23	0.63	0.92	1.48	1.44	1.77	1.44
1981	1.13	1.22	1.14	0.90	1.11	0.82	1.11
1982	0.89	1.01	0.90	1.11	0.78	1.05	0.78
1983	0.98	0.99	0.61	0.71	1.66	0.73	1.66
1984	0.65	0.36	0.94	1.12	0.62	0.42	0.62
1985	0.77	0.45	0.58	0.83	1.07	0.68	1.07
1986	0.52	0.47	0.15	0.43	1.47	0.60	1.47
1987	0.54	0.59	0.16	0.53	0.75	1.68	0.75
1988	0.42	1.26	0.01	0.15	0.65	1.23	0.65
1989	0.56	0.79	0.20	0.43	0.61	0.57	0.61
1990	0.86	0.76	0.13	0.96	1.47	1.04	1.47
1991	0.62	1.24	0.21	0.86	0.81	0.62	0.81
1992	0.43	0.95	0.06	0.48	0.57	0.21	0.57
1993	0.51	0.69	0.02	0.26	1.06	0.25	1.06
1994	0.48	0.62	0.04	0.15	0.87	0.20	0.87
1995	0.57	0.45	0.05	0.34	0.95	0.91	0.95
1996	0.51	0.55	0.10	0.57	0.68	0.49	0.68
1997	0.59	0.61	0.15	0.54	1.43	0.10	1.43
1998	0.38	0.76	0.05	0.15	0.89	0.33	0.89
1999	0.62	0.77	0.11	0.25	1.06	0.15	1.06
2000	0.46	0.86	0.09	0.11	1.48	0.08	1.48
2001	0.41	0.53	0.07	0.14	0.67	0.15	0.67
2002	0.50	0.43	0.06	0.12	1.06	0.16	1.06
2003	0.45	0.70	0.06	0.13	0.82	0.28	0.82
2004	0.41	0.81	0.07	0.17	0.93	0.28	0.93
2005	0.48	1.01	0.12	0.28	1.22	0.37	1.22
2006	0.62	1.47	0.12	0.70	1.38	0.12	1.38
2007	0.60	1.23	0.14	0.93	1.16	0.17	1.16
2008	0.46	0.79	0.08	0.71	0.72	0.11	0.72
2009	0.58	0.72	0.14	0.33	1.09	0.17	1.09
2010	0.38	1.14	0.04	0.26	0.76	0.09	0.76
2011	0.37	1.03	0.05	0.25	0.80	0.12	0.80
2012	0.62	1.59	0.09	0.22	1.10	0.13	1.10
2013	0.37	0.80	0.09	0.44	0.51	0.24	0.51
2014	0.56	1.21	0.08	0.57	0.98	0.15	0.98

ER Stock Identifiers			
Alaska Southeast	Age 4	Age 5	Age 6
Quinsam	Age 4	Age 5	
Robertson Creek	Age 3	Age 4	Age 5
Salmon River Hatchery	Age 4	Age 5	
Columbia Upriver Brights	Age 4	Age 5	
Willamette Spring Hatchery	Age 4	Age 5	

Appendix I4. Total Mortality exploitation rate indices by stock and age in the Alaska troll fishery, based on CWT data. Base period is 1979–1982.

	ER Stock Identifiers[1]														
Year	AKS Age 4	AKS Age 5	AKS Age 6	QUI Age 4	QUI Age 5	RBT Age 3	RBT Age 4	RBT Age 5	SRH Age 3	SRH Age 4	SRH Age 5	URB Age 4	URB Age 5	WSH Age 4	Fishery Index
1979				0.22	0.76	0.92	0.87	1.21	1.13			1.00		0.45	0.93
1980	1.83			1.10	0.65	1.12	0.97	0.82		1.55		1.01	1.16	0.84	1.11
1981	0.68	1.09		1.19	1.00	1.14	1.21	1.13	0.87		1.00	1.30	1.21	1.19	1.09
1982	0.49	0.91	1.00	1.49	1.59	0.83	0.96	0.84		0.45		0.70	0.63	1.52	0.86
1983	0.56	0.62		2.67	2.42	1.18	1.10	1.24	1.30	0.50	0.65	1.65		2.28	1.08
1984	0.42	0.71	0.71	1.26	2.44	1.32	0.97	0.65		0.42	0.54	1.43	1.47	0.79	0.88
1985	0.53	0.59	1.10	2.01	2.45	1.35	0.56	0.89			0.99	1.11	1.06	2.56	0.98
1986	0.48	0.51	0.51	1.22	1.89		0.63	0.51		0.88		0.78	0.75		0.68
1987	0.37	0.75	1.09	1.49	1.76	0.36		1.01	0.79	0.27	0.73	0.99	1.06	2.08	0.89
1988	0.47	0.62	1.59	1.30	0.99	0.12	0.38			0.34	0.64	0.47	0.71	1.08	0.69
1989	0.31	0.54	0.98	1.28	1.76	0.26	0.34	0.40	0.44	0.20	0.75	0.34	0.82	0.64	0.59
1990	0.87	0.54	0.62	1.94	1.20	0.65	0.44	0.42	0.88	0.40	0.69	0.89	0.53	1.54	0.66
1991	0.43	0.98	0.85	1.08	1.06	0.44	0.53	0.49	1.10	0.56	0.85		0.61	0.66	0.70
1992	0.13	0.46	1.26	1.29	1.35	0.41	0.41	0.53	0.17	0.22	0.14	0.23		0.52	0.51
1993	0.23	0.47	0.69			0.44	0.42	0.48	0.41	0.26	0.58	0.46		1.47	0.48
1994	0.22	0.32	0.77	0.52		1.07	0.38	0.52	1.18	0.43	0.46	0.39	0.72	0.46	0.50
1995	0.48	0.50	0.43	0.87			0.48	0.37	0.65	0.50	0.38		0.64	0.71	0.49
1996	0.22	0.55	0.77			0.31		0.51	0.68	0.55	0.96	0.35		0.22	0.57
1997	0.19	0.60	0.90	0.94		0.36	0.62		1.60	1.19	0.83	0.66		0.72	0.71
1998	0.23	0.54	1.00	1.33		0.64	0.45	0.41	0.35	0.40	0.30		0.74	0.82	0.54
1999	0.32	0.45	1.16	1.46	0.72		0.24	0.37	0.61	0.70	0.70	0.66		0.71	0.59
2000	0.33	0.55	1.00	1.10			0.09	0.40	0.76	0.82	0.88	1.05	1.11	0.82	0.66
2001	0.22	0.39	0.66	0.88	0.72	0.16			0.59	0.68	0.79	0.51		0.22	0.55
2002	0.22	0.27	0.52	1.17	1.63	0.17	0.40		1.26	0.85	0.96	0.91	1.11	0.39	0.68
2003	0.18	0.39	0.64	1.27	1.97	0.27	0.33	0.35	0.39	0.52	0.72	0.64	0.66	0.64	0.55
2004	0.37	0.41	0.62	0.71	0.79	0.44	0.50	0.42	1.07	0.60	0.72	0.67	0.70	0.54	0.56
2005	0.53	0.47	0.76	1.56	1.86	0.18	0.43	0.59	1.87	0.83	0.71	0.72	0.97	0.49	0.72
2006	0.50	0.94	0.86	1.77	1.57	0.44	0.30	0.47		0.96	0.98	0.79	0.69	0.74	0.77
2007	0.45	0.84	1.56	1.63		0.30	0.47	0.34	0.27	0.64	1.01	1.26		0.80	0.79
2008	0.22	0.58	1.10	0.83		0.49	0.21	0.34	0.73	0.63				0.25	0.50
2009	0.34	0.44	0.74	0.84		0.12	0.47	0.07	0.65	0.81	0.68	1.42		0.65	0.54
2010	0.22	0.52	0.84		1.21	0.14	0.37	0.48	0.72	0.80	0.75		0.76	0.54	0.59
2011	0.22	0.40	0.97	0.77		0.27	0.39		0.49	0.70	0.70	0.74		0.68	0.56
2012	0.34	0.62	1.64	1.31	1.89	0.16	0.34	0.51	0.31	1.09	0.63	1.04	1.10	0.84	0.79
2013	0.19	0.45	1.03	0.95	1.58	0.28	0.42	0.73	0.14	0.28	0.31	0.68		0.24	0.56
2014	0.34	0.69	1.55	1.03		0.32	0.68		0.25	0.45	0.32	1.01	0.90	0.71	0.72

[1] Stock Identifiers: AKS = ALASKA SPRING; QUI = QUINSAM; RBT = ROBERTSON CREEK; SRH = SALMON RIVER HATCHERY; URB = COLUMBIA UPRIVER BRIGHT; WSH = WILLAMETTE SPRING

Appendix I5. Landed catch exploitation rate indices by stock and age in the NBC troll fishery, based on CWT data. Base period is 1979–1982.

	ER Stock Identifiers[1]											
Year	AKS Age 4	QUI Age 3	QUI Age 4	RBT Age 3	RBT Age 4	RBT Age 5	SRH Age 3	SRH Age 4	SRH Age 5	URB Age 4	URB Age 5	WSH Age 4	Fishery Index
1979		0.55	0.89	1.15	0.83	0.48	1.17			1.10		0.65	0.83
1980		0.79	0.97	1.05	0.85	0.77		0.95		1.02	1.14	1.18	0.94
1981		1.78	1.42	0.85	1.04	1.75	1.27		1.00	1.26	1.50	1.53	1.28
1982	1.00	0.89	0.72	0.94	1.28		0.56	1.05		0.61	0.36	0.64	0.82
1983	1.59	1.22	1.50	0.98	0.73	0.75	0.58	1.24	0.23	1.23		1.27	0.80
1984	1.12	0.26	0.49	0.42	1.37	1.67		1.49	1.32	1.99		0.51	1.23
1985	0.75	0.24	0.60	1.06	2.11	1.70	0.42		1.31	1.59	1.49	0.22	1.27
1986	0.71	0.95	0.83		1.07		0.12	1.27		1.14	1.74		1.03
1987	0.60	0.35	0.61	0.45			0.20	0.89	1.09	1.61	1.80		0.95
1988	1.96	0.18	0.69	0.30	0.62			0.68	0.35	0.99	2.06	0.80	0.68
1989	0.91	0.43	0.44	0.37	0.88	1.05	0.14	0.61	1.02	0.94	3.69	0.37	0.97
1990	1.91	0.35	0.94	0.28	0.71	0.55	0.18	0.55	1.05	1.14	2.08	0.31	0.82
1991	0.64	0.42	0.65	0.35	0.71	1.10	0.14	0.87	1.04			0.28	0.77
1992	0.11		1.87	0.27	0.57	0.63	0.14	0.55	0.46			0.10	0.58
1993	0.27			0.14	0.62	0.83	0.13	1.29	1.16	1.06		0.21	0.83
1994	0.05			0.29	0.72	0.86	0.22	1.13	1.01	0.86	1.81	0.12	0.87
1995	0.00				0.41	0.20	0.13	0.00	0.40		0.50	0.16	0.29
1996	0.00			0.00			0.00	0.00	0.00	0.00		0.00	0.00
1997		0.38	0.25	0.21	0.31		0.18	0.22	0.18	0.50		0.13	0.25
1998	0.00	0.00	0.00		0.50		0.08	0.97	0.53		1.10	0.00	0.48
1999	0.00	0.16	0.18		0.35	0.55	0.10	0.43	0.23	1.09		0.00	0.35
2000	0.00	0.00	0.06				0.05	0.57	0.16	0.00	0.00	0.01	0.14
2001		0.00	0.01	0.00			0.05	0.36	0.41	0.00		0.02	0.20
2002	0.47		0.13	0.00	0.44		0.19	0.63	0.68	0.19		0.18	0.42
2003	0.00	0.00	0.00	0.04	0.05	0.00	0.05	0.67	0.25	0.69	0.95	0.05	0.25
2004	0.90	0.00	0.06	0.09	0.20	0.43	0.09	0.56	0.47	0.68	1.20	0.18	0.40
2005	0.18	0.07	0.04	0.03	0.33	0.11	0.11	0.96	0.48	1.37	0.92	0.09	0.43
2006	0.38	0.08	0.06	0.10	0.26	0.27		1.02	0.73	1.29	1.32	0.05	0.57
2007	0.09		0.43		0.49	0.50	0.00	1.32	0.68	1.07		0.00	0.61
2008	0.10			0.08	0.63	0.19	0.07	0.72				0.05	0.34
2009	0.90		0.11	0.19	0.21		0.01	1.35	0.97	1.77		0.03	0.69
2010	0.21	0.00		0.13	0.09		0.21	1.08	0.41			0.13	0.35
2011	0.00	0.00	0.00	0.00	0.32		0.06	0.91	0.54	0.55		0.14	0.37
2012	0.24		0.09		0.22	0.38	0.04	1.38	0.62	1.45	2.47	0.08	0.71
2013			0.12	0.02	0.20	0.14	0.02	0.93	0.74	0.85		0.11	0.42
2014	0.40	0.00	0.00		0.32		0.07	0.62	0.30	0.94	1.57	0.18	0.44

[1] Stock Identifiers: AKS = ALASKA SPRING; QUI = QUINSAM; RBT = ROBERTSON CREEK; SRH = SALMON RIVER HATCHERY; URB = COLUMBIA UPRIVER BRIGHT; WSH = WILLAMETTE SPRING

Appendix I6. NBC troll fishery Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data.

YEAR	SPFI
1979	0.90
1980	0.81
1981	1.31
1982	0.98
1983	0.94
1984	0.94
1985	0.93
1986	0.76
1987	0.71
1988	0.63
1989	0.66
1990	0.58
1991	0.64
1992	0.44
1993	0.51
1994	0.59
1995	0.26
1996	0.00
1997	0.20
1998	0.38
1999	0.29
2000	0.09
2001	0.08
2002	0.30
2003	0.21
2004	0.28
2005	0.39
2006	0.38
2007	0.36
2008	0.26
2009	0.52
2010	0.32
2011	0.29
2012	0.36
2013	0.31
2014	0.34

ER Stock Identifiers			
Alaska Southeast	Age 4	Age 5	Age 6
Quinsam	Age 4	Age 5	
Robertson Creek	Age 3	Age 4	Age 5
Salmon River Hatchery	Age 4	Age 5	
Columbia Upriver Brights	Age 4	Age 5	
Willamette Spring Hatchery	Age 4	Age 5	

Appendix I7. Total mortality exploitation rate indices by stock and age in the NBC troll fishery, based on CWT data. Base period is 1979–1982.

	ER Stock Identifiers[1]											
Year	AKS Age 4	QUI Age 3	QUI Age 4	RBT Age 3	RBT Age 4	RBT Age 5	SRH Age 3	SRH Age 4	SRH Age 5	URB Age 4	URB Age 5	WSH Age 4	Fishery Index
1979		0.56	0.88	1.16	0.83	0.48	1.17			1.10		0.63	0.83
1980		0.79	0.97	1.02	0.85	0.77		0.94		1.03	1.14	1.14	0.94
1981		1.76	1.43	0.85	1.04	1.76	1.25		1.00	1.27	1.51	1.52	1.28
1982	1.00	0.89	0.72	0.96	1.28		0.57	1.06		0.60	0.35	0.70	0.83
1983	1.63	1.20	1.50	0.97	0.73	0.76	0.64	1.24	0.23	1.23		1.25	0.81
1984	1.13	0.27	0.50	0.52	1.37	1.68		1.50	1.32	1.98		0.50	1.23
1985	0.79	0.26	0.61	1.22	2.12	1.73	0.50		1.31	1.58	1.46	0.21	1.27
1986	0.72	0.92	0.84		1.07		0.16	1.27		1.15	1.71		1.02
1987	0.67	0.48	0.65	0.49			0.33	0.90	1.11	1.66	1.82		0.98
1988	2.19	0.29	0.71	0.35	0.64			0.71	0.36	1.04	2.09	0.91	0.72
1989	0.96	0.49	0.46	0.44	0.89	1.06	0.28	0.66	1.03	1.01	3.69	0.39	0.99
1990	2.35	0.54	0.98	0.38	0.74	0.56	0.33	0.59	1.07	1.22	2.13	0.34	0.86
1991	0.75	0.57	0.67	0.47	0.73	1.12	0.32	0.90	1.05			0.31	0.80
1992	0.21		1.93	0.41	0.60	0.66	0.20	0.58	0.47			0.12	0.61
1993	0.25			0.32	0.65	0.86	0.30	1.34	1.18	1.12		0.23	0.87
1994	0.12			0.51	0.75	0.88	0.41	1.17	1.03	0.90	1.86	0.14	0.91
1995	0.08				0.43	0.22	0.23	0.04	0.42		0.53	0.21	0.32
1996	0.13			0.07			0.04	0.02	0.03	0.06		0.06	0.04
1997		0.37	0.25	0.26	0.32		0.21	0.23	0.18	0.51		0.14	0.26
1998	0.00	0.00	0.00		0.51		0.19	0.98	0.53		1.08	0.00	0.48
1999	0.00	0.18	0.18		0.34	0.56	0.13	0.42	0.23	1.10		0.00	0.35
2000	0.00	0.00	0.06				0.07	0.57	0.16	0.00	0.00	0.01	0.14
2001		0.00	0.01	0.00			0.07	0.37	0.42	0.00		0.02	0.20
2002	0.61		0.13	0.03	0.45		0.25	0.65	0.69	0.20		0.21	0.43
2003	0.08	0.00	0.00	0.04	0.05	0.00	0.11	0.69	0.26	0.71	0.96	0.05	0.25
2004	1.00	0.00	0.06	0.13	0.21	0.45	0.17	0.59	0.49	0.69	1.25	0.20	0.42
2005	0.23	0.06	0.04	0.06	0.34	0.11	0.25	1.01	0.49	1.43	0.96	0.10	0.45
2006	0.48	0.07	0.06	0.14	0.26	0.27		1.03	0.73	1.31	1.32	0.06	0.57
2007	0.12		0.42		0.49	0.50	0.05	1.34	0.69	1.05		0.00	0.61
2008	0.10			0.13	0.65	0.19	0.13	0.73				0.06	0.35
2009	0.95		0.11	0.20	0.21		0.12	1.37	0.99	1.78		0.03	0.70
2010	0.23	0.00		0.16	0.09		0.27	1.09	0.42			0.14	0.36
2011	0.05	0.00	0.00	0.07	0.35		0.10	0.99	0.58	0.60		0.17	0.40
2012	0.32		0.09		0.22	0.39	0.09	1.40	0.63	1.42	2.47	0.09	0.71
2013			0.12	0.04	0.23	0.14	0.08	1.02	0.81	0.92		0.11	0.46
2014	0.44	0.00	0.00		0.32		0.11	0.63	0.30	0.96	1.57	0.17	0.44

[1] Stock Identifiers: AKS = ALASKA SPRING; QUI = QUINSAM; RBT = ROBERTSON CREEK; SRH = SALMON RIVER HATCHERY; URB = COLUMBIA UPRIVER BRIGHT; WSH = WILLAMETTE SPRING

Appendix I8. NBC troll fishery Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data.

YEAR	SPFI
1979	0.90
1980	0.79
1981	1.32
1982	0.98
1983	0.95
1984	0.93
1985	0.91
1986	0.76
1987	0.79
1988	0.68
1989	0.73
1990	0.65
1991	0.64
1992	0.49
1993	0.56
1994	0.57
1995	0.28
1996	0.00
1997	0.19
1998	0.36
1999	0.28
2000	0.10
2001	0.10
2002	0.33
2003	0.22
2004	0.30
2005	0.39
2006	0.38
2007	0.37
2008	0.29
2009	0.52
2010	0.36
2011	0.32
2012	0.40
2013	0.36
2014	0.33

ER Stock Identifiers			
Alaska Southeast	Age 4	Age 5	Age 6
Quinsam	Age 4	Age 5	
Robertson Creek	Age 3	Age 4	Age 5
Salmon River Hatchery	Age 4	Age 5	
Columbia Upriver Brights	Age 4	Age 5	
Willamette Spring Hatchery	Age 4	Age 5	

Appendix I9. Landed catch exploitation rate indices by stock and age in the WCVI troll fishery, based on CWT data. Base period is 1979–1982.

	ER Stock Identifiers[1]																							
Year	CWF Age	GAD Age	GAD Age	LRH Age	LRH Age	LRW Age	RBT Age	RBT Age	RBT Age	SAM Age	SAM Age	SAM Age	SPR Age	SPR Age	SPS Age	SPS Age	SRH Age	SRH Age	SUM Age	URB Age	URB Age	UWA Age	UWA Age	WSH Age	Fishery Index
1979				1.16			1.17	1.26			1.00	1.00	0.97	0.84		1.13	1.57			1.12	1.63	0.70	1.22	1.03	1.06
1980				0.55	0.90		1.41	1.43					1.17	1.39				1.10	0.69	1.10	0.99	1.38	0.85	1.11	1.02
1981	0.79			1.14	0.79	0.85	0.67	0.58	1.00				0.94	0.63	0.72		0.43		1.31		0.99	0.84	0.89	0.63	0.87
1982	1.21	1.00		1.15	1.31	1.16	0.75	0.73		1.00			0.93	1.14	1.29	0.87		0.90		0.78	0.39	1.07	1.05	1.23	1.05
1983	1.36			1.64	1.64	0.96	0.42	0.84	1.83		0.96		1.44	0.93	1.64	0.89	1.55			0.28	0.43	0.70	1.08	0.28	1.14
1984	1.29	1.61		2.12	2.89		1.43	1.11	1.04			1.08	1.30	1.38	1.60	0.96		0.41		0.62	1.21	1.74	0.73	0.72	1.40
1985	0.89			1.20	1.13		0.57	0.00					0.53	0.90	0.81	0.65				0.60	0.95	0.80	1.01	0.44	0.85
1986	1.27			1.11	1.22	0.47		1.31					1.19	1.00	0.89	1.07		0.20		1.05	1.29	0.83	1.09		1.06
1987	0.85			0.93		1.45	0.27						0.45		0.75	0.51	0.27	0.24		0.72	0.73	0.36	0.41		0.62
1988	0.84	0.33		1.11	1.37	1.05	0.44	0.57		0.60			0.98		0.30	0.68		0.65	1.23	0.06	1.75		0.77	0.88	0.89
1989	0.52	0.20		0.28	0.56	0.56	0.22	0.34	0.00	0.21	0.59		0.58	0.39	0.35	0.38	0.36		0.80		0.82			0.55	0.47
1990	0.71	0.78		1.13		1.21	0.67	0.51	.49	0.41	0.85		0.91	0.72	0.74	0.81	0.73	0.46	1.64		1.50			0.85	0.90
1991				0.80		0.74	0.59	0.53	1.36	0.25	0.56	1.07	0.60	0.62	0.42	0.52	0.95	0.37	0.51					0.08	0.65
1992	1.14			0.65		0.32	1.54	2.41	5.08	1.05	0.26		0.43	0.74	0.74	0.72	1.38	2.68	0.94					0.17	0.87
1993				1.08	0.68		1.07	2.27	2.41	1.11	0.42		0.53	0.99	1.04	0.51	1.23	1.25		0.45	1.82			0.45	0.85
1994	0.12					0.22	0.59	0.66	1.28	0.06	0.69		0.81	0.63	0.22	0.46		0.39			0.88			0.26	0.53
1995		0.17				0.43		0.44	0.28	0.16	0.37		0.36	0.35	0.27	0.25	0.04							0.12	0.31
1996	0.00	0.00		0.00			0.00			0.00	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00			0.00	0.00
1997	0.38			0.74			0.00	0.04		0.02	0.24		0.47	0.40	0.04	0.29	0.00	0.03	0.07		0.07			0.00	0.31
1998								0.00			0.08		0.05	0.00	0.00	0.03	0.00	0.00	0.00	0.01				0.04	0.03
1999		0.04		0.09					0.00		0.07		0.02		0.02	0.05	0.00	0.00	0.03		0.00			0.00	0.04
2000				0.09	1.73						1.10		0.05	0.76	0.03	0.71	0.00	0.00	0.22	0.08	0.47			0.08	0.63
2001		0.58		0.29		0.72	0.00			0.42	0.36		0.15	0.60	0.49	0.55	0.00	0.05	0.51	0.09	0.16			0.18	0.40
2002	0.57	0.14		0.29	0.39		0.02	0.00		0.26	0.40		0.28	0.69	0.41	0.49	0.00	0.00	0.58	0.06	0.25			0.29	0.40
2003	0.53	0.09		0.27	0.76	0.12	0.00	0.00			0.59		0.29	0.58	0.35	0.55	0.00	0.00	0.68	0.13	0.09			0.56	0.44
2004		0.06		0.38	1.04	0.12	0.03	0.02	0.00	0.18	0.57		0.35	0.81	0.36	0.83	0.19	0.27	0.33	0.12	0.45			2.17	0.54
2005	0.30	0.58		0.70	1.70	0.12	0.00	0.00		0.11	0.78		0.88	1.19	0.68	0.80	0.17	0.23	0.59	0.09	0.42			1.23	0.75
2006		0.22				0.46	0.00	0.00	0.00	0.38	0.74		0.57	1.40	0.52	0.73		0.29	0.25		0.67			1.47	0.66
2007		0.77		0.69				0.02		1.27	0.57		0.62	0.93	1.00	0.69	0.00		0.40		0.12			0.23	0.66
2008		0.38		0.42			0.00		0.00	0.71	0.33		0.21		0.50	0.32	0.24	0.00	0.26	0.22				0.17	0.31
2009	0.00	0.50		0.20	0.23			0.00		0.62	0.15		0.15	0.06	0.57	0.19	0.04	0.04	0.41		0.11			0.10	0.19
2010	0.11	0.77		0.34			0.04	0.26		0.97	0.12		0.24	0.35	0.48	0.12	0.00	0.00	0.32	0.09				0.22	0.26
2011	0.07	0.33		0.41	0.75		0.00	0.00		0.00	0.41		0.25	0.59	0.05	0.21	0.12	0.56	0.25	0.00	0.32			0.51	0.34
2012	0.20	0.24		0.16	0.00			0.00	0.17	0.34	0.05		0.11	0.45	0.36	0.18	0.04	0.42	0.33	0.08	0.31			1.16	0.20
2013	0.06	0.16		0.18	0.14		0.00			0.14	0.09		0.15	0.14	0.03	0.20	0.04	0.07	0.22	0.04	0.26			0.28	0.14
2014	0.14	0.22		0.27		0.27		0.24		0.69	0.26		0.12	0.30	0.47	0.26	0.11	0.22	0.74	0.06	0.42			1.19	0.30

[1] Stock Identifiers: CWF = COWLITZ FALL TULE; RBT = ROBERTSON CREEK; SRH = SALMON RIVER HATCHERY; WSH = WILLAMETTE SPRING; GAD = G ADAMS FALL FING; SAM = SAMISH FALL FING; SUM = COL RIVER SUMMERS; CHI = CHILLAWACK; LRH = LOWER RIVER TULE; SPR = SPRING CREEK TULE; URB = COLUMBIA UPRIVER BRIGHT; LRW = LEWIS RIVER WILD; SPS = SO SOUND FALL FING; UWA = U OF W FALL ACCEL (*discontinued*)

Appendix I10. WCVI troll fishery Stratified Proportion Fishery Index (SPFI) values as landed catch, based on CWT data.

YEAR	SPFI	FALL/WIN	SPRING	SUMMER
1979	1.06	1.11	1.09	1.03
1980	1.16	1.07	1.28	1.12
1981	0.84	1.07	0.77	0.82
1982	0.93	0.75	0.86	1.03
1983	0.96	0.87	0.80	1.14
1984	1.33	1.06	0.86	1.67
1985	1.21	0.00	0.58	1.49
1986	0.87	0.10	0.58	1.45
1987	1.36	0.00	0.00	1.43
1988	1.65	0.00	0.00	1.74
1989	0.21	0.00	0.00	0.84
1990	1.08	0.00	0.05	1.66
1991	0.56	0.00	0.03	1.14
1992	1.63	0.18	0.00	2.07
1993	0.65	0.03	0.00	1.98
1994	0.47	0.03	0.00	1.12
1995	0.57	0.00	0.00	0.60
1996	0.00	0.00	0.00	0.00
1997	0.40	0.00	0.00	0.42
1998	0.04	0.03	0.05	0.00
1999	0.14	0.17	0.00	0.00
2000	0.60	1.46	0.07	0.00
2001	0.21	0.65	0.36	0.08
2002	0.24	0.35	0.69	0.03
2003	0.57	0.53	0.55	0.00
2004	0.40	1.05	0.42	0.15
2005	0.60	2.02	0.42	0.13
2006	0.34	1.42	0.23	0.15
2007	0.35	1.15	0.76	0.04
2008	0.34	0.36	0.31	0.36
2009	0.12	0.32	0.37	0.03
2010	0.14	0.28	0.53	0.04
2011	0.21	0.17	0.45	0.11
2012	0.19	0.50	0.12	0.19
2013	0.17	0.17	0.30	0.03
2014	0.25	0.27	0.28	0.23

ER Stock Identifiers			
Cowlitz Fall Tule	Age 4		
George Adams	Age 3	Age 4	
Lower River Hatchery	Age 3	Age 4	
Lewis River Wild	Age 4		
Robertson Creek	Age 3	Age 4	Age 5
Samish	Age 3	Age 4	
Spring Creek	Age 3	Age 4	
South Puget Sound Fingerling	Age 3	Age 4	
Salmon River Hatchery	Age 3	Age 4	Age 5
Columbia River Summers	Age 4		
Columbia Upriver Brights	Age 3	Age 4	
U of WA Accel. (*discontinued*)	Age 3	Age 4	
Willamette Spring Hatchery	Age 4		
Chilliwack	Age 3	Age 4	

Note: SPFI values were calculated including CWT estimate from the Chilliwack Hatchery stock. Data for this stock could not be included in the calculation of the ROM indices due to lack of CWT recoveries in the 1979-82 base period.

Appendix I11. Total mortality exploitation rate indices by stock and age in the WCVI troll fishery, based on CWT data. Base period is 1979–1982.

	Stock Identifiers[1]																							
Year	CWF Age 4	GAD Age 3	GAD Age 4	LRH Age 3	LRH Age 4	LRW Age 4	RBT Age 3	RBT Age 4	RBT Age 5	SAM Age 3	SAM Age 4	SAM Age 5	SPR Age 3	SPR Age 4	SPS Age 3	SPS Age 4	SRH Age 3	SRH Age 4	SUM Age 4	URB Age 3	URB Age 4	UWA Age 3	UWA Age 4	WSH Age 4	Fishery Index
1979				1.15			1.20	1.25			1.00	1.00	0.95	0.84		1.13	1.54			1.11	1.64	0.70	1.23	1.00	1.05
1980				0.56	0.88		1.38	1.42					1.16	1.39				1.12	0.69	1.10	1.00	1.37	0.85	1.09	1.02
1981	0.79			1.14	0.78	0.85	0.66	0.60	1.00				0.92	0.63	0.73		0.46		1.31		0.98	0.83	0.88	0.64	0.86
1982	1.21	1.00		1.16	1.34	1.15	0.75	0.72		1.00			0.97	1.14	1.27	0.87		0.88		0.79	0.38	1.11	1.05	1.27	1.06
1983	1.37			1.63	1.66	0.96	0.45	0.83	1.87		0.96		1.40	0.92	1.58	0.89	1.43			0.27	0.41	0.72	1.08	0.30	1.14
1984	1.31	1.49		2.08	2.94		1.43	1.11	1.08			1.08	1.24	1.33	1.57	0.96		0.43		0.64	1.20	1.69	0.74	0.72	1.39
1985	0.91			1.23	1.17		0.54	0.00					0.56	0.93	0.82	0.66				0.60	0.96	0.79	1.03	0.47	0.86
1986	1.29			1.02	1.20	0.47		1.31					1.19	0.99	0.92	1.06		0.20		1.05	1.30	0.85	1.09		1.05
1987	0.89			1.23		1.49	0.29						0.46		0.94	0.53	0.38	0.27		0.87	0.79	0.46	0.44		0.70
1988	0.92	0.42		1.36	1.53	1.11	0.49	0.60		0.75			1.00		0.41	0.72		0.71	1.28	0.41	1.89		0.81	0.96	0.98
1989	0.55	0.32		0.33	0.62	0.59	0.24	0.34	0.00	0.37	0.61		0.64	0.40	0.42	0.39	0.43		0.81		0.88			0.57	0.50
1990	0.76	0.84		1.18		1.24	0.71	0.53	1.55	0.51	0.86		0.94	0.74	0.99	0.85	0.83	0.49	1.66		1.56			0.91	0.95
1991				0.76		0.77	0.66	0.55	1.40	0.45	0.58	1.07	0.63	0.64	0.56	0.54	1.03	0.40	0.52					0.09	0.67
1992	1.16			0.78		0.34	1.89	2.51	5.25	1.02	0.27		0.51	0.76	0.80	0.73	1.53	2.72	0.94					0.25	0.91
1993				1.24	0.77		1.44	2.35	2.53	1.22	0.44		0.61	1.02	1.17	0.53	1.55	1.33		0.69	1.88			0.47	0.93
1994	0.11					0.24	0.71	0.69	1.33	0.26	0.70		0.87	0.66	0.26	0.46		0.42			0.92			0.27	0.56
1995		0.26				0.48		0.47	0.31	0.27	0.41		0.44	0.40	0.35	0.28	0.10							0.15	0.36
1996	0.03	0.06		0.06			0.04			0.07	0.02		0.04		0.07	0.02	0.07	0.03	0.03	0.07	0.06			0.03	0.04
1997	0.38			0.89			0.01	0.04		0.09	0.25		0.56	0.44	0.15	0.31	0.01	0.03	0.07		0.07			0.00	0.35
1998								0.00			0.08		0.04	0.00	0.00	0.03	0.00	0.00	0.00	0.01				0.03	0.03
1999		0.03		0.08					0.00		0.07		0.01		0.02	0.05	0.00	0.00	0.03		0.00			0.00	0.04
2000				0.08	1.75						1.07		0.05	0.73	0.03	0.71	0.00	0.00	0.22	0.08	0.46			0.07	0.60
2001		0.50		0.27		0.70	0.00			0.37	0.35		0.14	0.58	0.44	0.55	0.00	0.05	0.51	0.08	0.15			0.16	0.38
2002	0.57	0.12		0.27	0.38		0.01	0.00		0.22	0.39		0.26	0.68	0.37	0.49	0.00	0.00	0.57	0.06	0.25			0.26	0.38
2003	0.54	0.08		0.25	0.76	0.12	0.00	0.00			0.57		0.26	0.57	0.32	0.55	0.00	0.00	0.67	0.11	0.09			0.51	0.42
2004		0.05		0.35	1.04	0.12	0.03	0.02	0.00	0.15	0.56		0.32	0.79	0.31	0.82	0.17	0.27	0.33	0.11	0.44			1.98	0.51
2005	0.29	0.50		0.63	1.70	0.12	0.00	0.00		0.10	0.77		0.83	1.17	0.60	0.79	0.14	0.24	0.58	0.09	0.42			1.12	0.73
2006		0.19				0.45	0.00	0.00	0.00	0.35	0.72		0.53	1.40	0.47	0.72		0.28	0.25		0.65			1.34	0.64
2007		0.67		0.62				0.02		1.11	0.56		0.56	0.90	0.88	0.69	0.00		0.39		0.12			0.20	0.62
2008		0.32		0.38			0.00		0.00	0.61	0.33		0.20		0.44	0.31	0.21	0.00	0.26	0.20				0.15	0.29
2009	0.00	0.43		0.20	0.23			0.00		0.56	0.15		0.14	0.05	0.50	0.18	0.04	0.04	0.40		0.10			0.09	0.18
2010	0.11	0.67		0.31			0.03	0.25		0.84	0.12		0.22	0.34	0.43	0.12	0.00	0.00	0.32	0.09				0.20	0.25
2011	0.07	0.29		0.38	0.74		0.00	0.00		0.00	0.40		0.23	0.57	0.04	0.20	0.12	0.56	0.25	0.00	0.32			0.47	0.32
2012	0.20	0.20		0.14	0.00			0.00	0.17	0.30	0.05		0.10	0.43	0.32	0.17	0.04	0.42	0.32	0.08	0.30			1.06	0.19
2013	0.06	0.13		0.16	0.14		0.00			0.13	0.09		0.14	0.13	0.03	0.19	0.03	0.07	0.21	0.03	0.26			0.25	0.13
2014	0.14	0.18		0.25		0.26		0.23		0.59	0.26		0.11	0.29	0.42	0.25	0.10	0.22	0.73	0.06	0.42			1.08	0.28

[1] Stock identifiers: CWF = COWLITZ FALL TULE; RBT = ROBERTSON CREEK; SRH = SALMON RIVER HATCHERY; WSH = WILLAMETTE SPRING; GAD = G ADAMS FALL FING; SAM = SAMISH FALL FING; SUM = COL RIVER SUMMERS; CHI = CHILLAWACK; LRH = LOWER RIVER TULE; SPR = SPRING CREEK TULE; URB = COLUMBIA UPRIVER BRIGHT; LRW = LEWIS RIVER WILD; SPS = SO SOUND FALL FING; UWA = U OF W FALL ACCEL (*discontinued*)

Appendix I12. WCVI troll fishery Stratified Proportion Fishery Index (SPFI) values as total mortality, based on CWT data.

YEAR	SPFI	FALL/WIN	SPRING	SUMMER
1979	1.05	1.08	1.07	1.02
1980	1.16	1.07	1.27	1.12
1981	0.85	1.08	0.79	0.83
1982	0.95	0.77	0.87	1.04
1983	0.94	0.84	0.78	1.11
1984	1.33	1.04	0.86	1.68
1985	1.20	0.00	0.57	1.47
1986	0.86	0.09	0.57	1.44
1987	1.55	0.00	0.00	1.62
1988	1.75	0.00	0.00	1.83
1989	0.25	0.00	0.01	0.97
1990	1.11	0.00	0.05	1.71
1991	0.61	0.00	0.03	1.23
1992	1.68	0.18	0.00	2.13
1993	0.67	0.03	0.00	2.04
1994	0.48	0.03	0.00	1.14
1995	0.67	0.00	0.00	0.71
1996	0.00	0.00	0.00	0.00
1997	0.38	0.00	0.00	0.40
1998	0.04	0.03	0.04	0.00
1999	0.13	0.17	0.00	0.00
2000	0.56	1.38	0.06	0.00
2001	0.20	0.61	0.34	0.07
2002	0.22	0.33	0.65	0.02
2003	0.53	0.50	0.52	0.00
2004	0.38	0.99	0.40	0.14
2005	0.57	1.91	0.40	0.12
2006	0.32	1.34	0.22	0.15
2007	0.33	1.08	0.71	0.04
2008	0.32	0.34	0.29	0.34
2009	0.12	0.30	0.35	0.03
2010	0.14	0.26	0.50	0.04
2011	0.20	0.16	0.43	0.10
2012	0.18	0.47	0.12	0.18
2013	0.16	0.16	0.28	0.03
2014	0.24	0.25	0.27	0.22

ER Stock Identifiers			
Cowlitz Fall Tule	Age 4		
George Adams	Age 3	Age 4	
Lower River Hatchery	Age 3	Age 4	
Lewis River Wild	Age 4		
Robertson Creek	Age 3	Age 4	Age 5
Samish	Age 3	Age 4	
Spring Creek	Age 3	Age 4	
South Puget Sound Fingerling	Age 3	Age 4	
Salmon River Hatchery	Age 3	Age 4	Age 5
Columbia River Summers	Age 4		
Columbia Upriver Brights	Age 3	Age 4	
U of WA Accel. (*discontinued*)	Age 3	Age 4	
Willamette Spring Hatchery	Age 4		
Chilliwack	Age 3	Age 4	

Note: SPFI values were calculated including CWT estimate from the Chilliwack Hatchery stock. Data for this stock could not be included in the calculation of the ROM indices due to lack of CWT recoveries in the 1979-82 base period.

APPENDIX J: PRESEASON FORECASTS INCLUDING 2016 AND POSTSEASON ESTIMATES FOR PSC MODEL STOCKS, 1999-2015

Note: there was no CTC consensus on the 2015 and 2016 model calibrations (CLB 1503 and 1601).Outputs from CLB 1503 were used by the Commission to configure AABM fisheries in 2015. Abundances indices for AABM fisheries generated from CLB 1601 were accepted by the Commission. For each stock group in Appendix J, preseason PSC Model forecasts for 2015 are from CLB 1503 and forecasts for 2016 are from CLB 1601.

Data in Appendix J are used to evaluate Chinook Model and Agency Forecasts. The following terminology is used:

- Model Forecast. The Model forecast for a stock is from that year's calibration (e.g., 2016 is from CLB1601 and 2015 is from CLB1503). These data do not change from year-to-year and can be found in a given year's model calibration out files. [source: stage 2 checkCLB.out file]
- Agency Forecast. The Agency forecast for a stock is what was provided to the CTC for use with that year's Model calibration. These data do not change from year-to-year and can be found in a given year's model calibration input file. [source: OCNyear.FCS files]
- Postseason Return. The postseason return is the most up to date estimate of either the terminal return or the escapement, depending on how the stock is reported in the FCS file. [source: checkCLB.out or FCS file]

Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
AKS[1] (Alaska SSE)	1999	11,866	NA	12,219	NA	NA	97%
	2000	18,967	NA	16,164	NA	NA	117%
	2001	22,130	NA	21,590	NA	NA	103%
	2002	15,650	NA	18,679	NA	NA	84%
	2003	22,316	NA	14,576	NA	NA	153%
	2004	11,880	NA	17,107	NA	NA	69%
	2005	25,204	NA	15,235	NA	NA	165%
	2006	17,966	NA	20,730	NA	NA	69%
	2007	25,653	NA	15,012	NA	NA	171%
	2008	14,626	NA	13,780	NA	NA	106%
	2009	14,362	NA	10,463	NA	NA	137%
	2010	16,445	NA	15,674	NA	NA	105%
	2011	17,065	NA	11,808	NA	NA	145%
	2012	12,557	NA	6,826	NA	NA	184%
	2013	4,838	NA	8,337	NA	NA	58%
	2014	4,239	NA	10,588	NA	NA	40%
	2015	6,812	NA	9,961	NA	NA	68%
	2016	7,100	NA		NA	NA	
	AVG.				NA	NA	110%
NTH[2] (North/ Central BC)	1999	149,593	NA	154,294	NA	NA	99%
	2000	159,818	NA	188,482	NA	NA	86%
	2001	189,088	NA	212,176	NA	NA	83%
	2002	228,073	NA	147,381	NA	NA	167%
	2003	154,103	NA	165,029	NA	NA	93%
	2004	171,070	NA	153,292	NA	NA	112%
	2005	154,552	NA	132,480	NA	NA	122%
	2006	132,710	NA	151,915	NA	NA	87%
	2007	156,017	NA	123,388	NA	NA	126%
	2008	131,262	NA	112,038	NA	NA	124%
	2009	119,761	NA	127,131	NA	NA	95%
	2010	136,998	NA	114,904	NA	NA	121%
	2011	119,323	NA	95,091	NA	NA	125%
	2012	98,010	NA	80,339	NA	NA	125%
	2013	86,819	NA	94,564	NA	NA	87%
	2014	94,878	NA	95,975	NA	NA	99%
	2015	95,587	NA	151,076	NA	NA	63%
	2016	146,608	NA		NA	NA	
	AVG.				NA	NA	107%
RBH+RBT[3] (WCVI Hatchery + Natural)	1999	78,074	68,400	105,402	114%	70%	79%
	2000	21,040	15,040	39,227	140%	41%	57%
	2001	33,702	30,633	89,209	110%	35%	39%
	2002	128,068	109,882	167,548	117%	100%	117%
	2003	111,430	105,801	217,662	105%	49%	52%
	2004	166,548	144,180	261,827	116%	58%	67%
	2005	244,768	218,840	157,906	112%	142%	158%
	2006	152,483	138,878	197,866	110%	70%	77%
	2007	151,925	117,321	121,232	129%	99%	129%
	2008	67,347	60,255	99,325	112%	61%	68%
	2009	76,063	58,382	92,944	130%	66%	86%
	2010	75,748	61,586	95,366	123%	67%	82%
	2011	98,929	74,708	163,092	132%	46%	61%
	2012	70,838	54,765	82,131	129%	65%	84%
	2013	32,180	NA[4]	181,138	NA	NA	19%
	2014	205,989	216,727	120,473	95%	180%	171%
	2015	91,710	105,003	189,764	87%	55%	48%
	2016	235,775	224,119		105%		
	AVG.				116%	75%	82%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
GSQ[1] (Upper Strait of Georgia)	1999	16,472	NA	16,102	NA	NA	102%
	2000	19,452	NA	23,470	NA	NA	88%
	2001	25,828	NA	31,270	NA	NA	73%
	2002	41,492	NA	32,059	NA	NA	138%
	2003	36,882	NA	31,375	NA	NA	119%
	2004	39,766	NA	27,337	NA	NA	140%
	2005	38,798	NA	26,982	NA	NA	123%
	2006	39,171	NA	31,886	NA	NA	119%
	2007	41,711	NA	22,805	NA	NA	184%
	2008	30,065	NA	18,124	NA	NA	146%
	2009	26,173	NA	21,489	NA	NA	131%
	2010	26,624	NA	18,789	NA	NA	144%
	2011	23,998	NA	19,552	NA	NA	123%
	2012	25,756	NA	26,012	NA	NA	106%
	2013	31,498	NA	19,971	NA	NA	137%
	2014	30,162	NA	20,916	NA	NA	144%
	2015	26,699	NA	19,301	NA	NA	138%
	2016	26,084	NA		NA	NA	
	AVG.				NA	NA	127%
GSH[2] (Lower Strait of Georgia Hatchery)	1999	23,648	NA	23,015	NA	NA	118%
	2000	19,165	NA	21,322	NA	NA	94%
	2001	17,547	NA	29,633	NA	NA	64%
	2002	25,051	NA	22,064	NA	NA	106%
	2003	21,222	NA	21,496	NA	NA	88%
	2004	16,573	NA	20,852	NA	NA	75%
	2005	21,046	NA	25,941	NA	NA	75%
	2006	18,169	NA	22,109	NA	NA	80%
	2007	24,378	NA	12,733	NA	NA	185%
	2008	11,765	NA	12,011	NA	NA	88%
	2009	17,551	NA	13,380	NA	NA	122%
	2010	7,999	NA	11,605	NA	NA	56%
	2011	14,671	NA	11,480	NA	NA	154%
	2012	10,104	NA	8,462	NA	NA	120%
	2013	5,568	NA	8,242	NA	NA	72%
	2014	6,116	NA	15,665	NA	NA	39%
	2015	18,566	NA	9,888	NA	NA	188%
	2016	5,475	NA		NA	NA	
	AVG.				NA	NA	101%
GST[1] (Lower Strait of Georgia Natural)	1999	14,737	NA	8,715	NA	NA	163%
	2000	11,094	NA	8,223	NA	NA	137%
	2001	7,955	NA	8,569	NA	NA	90%
	2002	8,833	NA	7,812	NA	NA	108%
	2003	8,088	NA	5,903	NA	NA	151%
	2004	5,157	NA	3,642	NA	NA	139%
	2005	4,459	NA	4,870	NA	NA	82%
	2006	4,070	NA	4,880	NA	NA	54%
	2007	7,782	NA	4,778	NA	NA	163%
	2008	6,823	NA	5,646	NA	NA	139%
	2009	5,701	NA	3,106	NA	NA	192%
	2010	2,972	NA	5,763	NA	NA	52%
	2011	10,778	NA	7,595	NA	NA	137%
	2012	11,433	NA	6,291	NA	NA	188%
	2013	8,267	NA	5,440	NA	NA	146%
	2014	11,910	NA	6,579	NA	NA	181%
	2015	13,177	NA	9,840	NA	NA	134%
	2016	7,469	NA		NA	NA	
	AVG.				NA	NA	133%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
FRE[2] (Fraser Early)	1999	163,342	NA	105,473	NA	NA	154%
	2000	118,058	NA	116,233	NA	NA	101%
	2001	122,333	NA	154,175	NA	NA	68%
	2002	170,232	NA	189,335	NA	NA	79%
	2003	202,363	NA	191,700	NA	NA	108%
	2004	185,450	NA	147,813	NA	NA	131%
	2005	151,591	NA	135,177	NA	NA	113%
	2006	141,517	NA	203,460	NA	NA	70%
	2007	196,060	NA	110,555	NA	NA	177%
	2008	128,347	NA	149,048	NA	NA	87%
	2009	153,593	NA	136,201	NA	NA	114%
	2010	144,214	NA	203,948	NA	NA	84%
	2011	174,183	NA	161,748	NA	NA	106%
	2012	175,729	NA	77,285	NA	NA	238%
	2013	83,719	NA	165,166	NA	NA	51%
	2014	176,008	NA	159,656	NA	NA	110%
	2015	173,286	NA	236,551	NA	NA	73%
	2016	258,886	NA		NA	NA	
	AVG.				NA	NA	110%
FRL[1] (Fraser Late)	1999	144,316	82,650	189,723	175%	44%	76%
	2000	187,970	220,400	132,041	85%	113%	96%
	2001	141,745	131,800	192,732	108%	93%	100%
	2002	132,946	160,100	170,467	83%	97%	80%
	2003	127,144	114,780	309,840	111%	37%	41%
	2004	104,597	97,227	208,024	108%	50%	53%
	2005	121,315	108,061	132,576	112%	87%	97%
	2006	115,489	116,682	118,606	99%	107%	106%
	2007	122,402	107,311	108,833	114%	102%	116%
	2008	125,100	116,038	90,751	108%	132%	142%
	2009	119,892	91,391	94,520	131%	105%	137%
	2010	119,953	118,891	198,093	101%	59%	60%
	2011	353,646	284,604	184,870	124%	160%	198%
	2012	107,738	93,652	70,565	115%	135%	155%
	2013	70,178	73,584	104,247	95%	71%	68%
	2014	131,118	118,361	112,507	111%	105%	117%
	2015	88,165	72,037	140,752	122%	51%	63%
	2016	57,236	51,903		110%		
	AVG.				112%	91%	100%
NKS[1] (Nooksack Spring)	1999	1,068	NA	989	NA	NA	108%
	2000	834	NA	1,526	NA	NA	55%
	2001	982	NA	2,452	NA	NA	40%
	2002	1,216	NA	4,030	NA	NA	30%
	2003	1,301	NA	3,061	NA	NA	43%
	2004	1,708	NA	1,849	NA	NA	92%
	2005	1,549	NA	2,167	NA	NA	71%
	2006	583	677	1,539	86%	44%	38%
	2007	582	575	1,620	101%	35%	36%
	2008	371	378	1,584	98%	24%	23%
	2009	336	315	2,197	107%	14%	15%
	2010	374	390	2,421	96%	16%	15%
	2011	340	309	1,236	110%	25%	28%
	2012	271	243	1,225	112%	20%	22%
	2013	1,331	NA	1,466	NA	NA	91%
	2014	1,361	1,273	1,273	107%	100%	107%
	2015	1,192	1,119	1,119	107%	100%	107%
	2016	1,307	1,324		99%		
	AVG.				102%	42%	54%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
NKF[2] (Nooksack/ Samish Fall Fingerling)	1999	27,472	27,000	43,709	102%	62%	63%
	2000	21,277	19,000	35,630	112%	53%	60%
	2001	33,974	36,450	71,437	93%	51%	48%
	2002	50,361	54,420	62,519	93%	87%	81%
	2003	48,259	45,750	33,339	105%	137%	145%
	2004	37,980	34,200	18,118	111%	189%	210%
	2005	19,808	19,523	20,703	101%	94%	96%
	2006	16,795	16,899	38,455	99%	44%	44%
	2007	22,086	18,834	39,390	117%	48%	56%
	2008	34,392	35,271	33,750	98%	105%	102%
	2009	26,072	23,014	25,884	113%	89%	101%
	2010	32,061	32,627	41,239	98%	79%	78%
	2011	39,144	37,902	40,678	81%	93%	96%
	2012	45,719	43,973	41,557	104%	106%	110%
	2013	50,065	48,257	37,525	104%	129%	133%
	2014	46,771	44,046	28,970	106%	152%	161%
	2015	40,315	39,739	22,651	101%	175%	178%
	2016	29,170	28,611		102%		
	AVG.				102%	100%	104%
SNO[2] (Snohomish Wild)	1999	5,823	5,600	2,524	104%	222%	231%
	2000	5,997	6,000	3,269	100%	184%	183%
	2001	5,876	5,760	6,742	102%	85%	87%
	2002	6,524	6,700	7,422	97%	90%	88%
	2003	6,033	5,450	5,786	111%	94%	104%
	2004	12,845	15,700	10,994	82%	143%	117%
	2005	10,161	NA	4,963	NA	NA	205%
	2006	7,824	8,729	7,180	90%	122%	109%
	2007	11,153	12,289	2,832	91%	434%	394%
	2008	6,103	6,541	6,986	93%	94%	87%
	2009	8,503	8,410	1,830	101%	460%	465%
	2010	8,050	9,858	3,488	82%	283%	231%
	2011	8,281	7,600	1,414	109%	537%	586%
	2012	2,506	2,775	3,361	90%	83%	75%
	2013	3,835	3,161	2,684	121%	118%	143%
	2014	3,416	3,327	2,375	103%	140%	144%
	2015	3,809	4,159	3,938	92%	106%	97%
	2016	3,586	3,339		107%		
	AVG.				99%	200%	197%
SKG[2] (Skagit Summer/ Fall Wild)	1999	9,107	7,600	51,39	120%	148%	177%
	2000	6,988	7,300	16,266	96%	45%	43%
	2001	9,064	9,183	14,193	99%	65%	64%
	2002	12,635	13,455	18,114	94%	74%	70%
	2003	11,906	11,348	10,583	105%	107%	113%
	2004	18,761	20,359	22,144	92%	92%	85%
	2005	16,220	19,493	22,784	83%	86%	71%
	2006	22,402	21,811	21,246	103%	103%	105%
	2007	12,324	14,252	12,646	86%	113%	97%
	2008	18,598	18,302	14,254	102%	128%	130%
	2009	22,193	20,400	10,977	109%	186%	202%
	2010	9,894	11,853	7,926	83%	150%	125%
	2011	12,556	13,044	8,382	96%	156%	150%
	2012	10,020	8,337	15,422	120%	54%	65%
	2013	7,287	13,018	13,312	56%	98%	55%
	2014	15,221	17,874	12,777	85%	140%	119%
	2015	9,819	11,387	13,315	116%	74%	86%
	2016	14,335	14,361		100%		
	AVG.				97%	107%	103%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
PSN[7] (Puget Sound Natural)	1999	28,800	28,400	23,215	101%	122%	124%
	2000	15,364	10,000	17,882	154%	56%	86%
	2001	19,938	18,900	26,107	105%	72%	76%
	2002	20,008	19,801	25,009	101%	79%	80%
	2003	25,743	26,600	9,233	97%	288%	279%
	2004	24,616	23,200	16,023	106%	145%	154%
	2005	22,208	17,715	10,903	125%	162%	204%
	2006	20,182	21,301	13,095	95%	163%	154%
	2007	18,964	17,014	12,094	111%	141%	157%
	2008	23,118	21,100	18,637	110%	113%	124%
	2009	24,698	23,073	6,772	107%	341%	365%
	2010	14,734	15,128	6,745	97%	224%	218%
	2011	18,115	15,997	6,893	113%	232%	263%
	2012	14,396	13,860	10,213	104%	136%	141%
	2013	12,079	8,767	7,770	138%	113%	155%
	2014	9,253	8,125	7,354	114%	110%	126%
	2015	7,797	7,478	7,478	104%	100%	104%
	2016	7,801	7,066		110%		
	AVG.				111%	153%	165%
STL[1] (Stillaguamish Summer/Fall Wild)	1999	1,332	NA	1,194	NA	NA	112%
	2000	1,370	1,500	1,612	91%	93%	85%
	2001	1,328	1,360	1,351	98%	101%	98%
	2002	1,372	1,449	1,564	95%	93%	88%
	2003	1,860	2,050	990	91%	207%	188%
	2004	1,795	NA	1,509	NA	NA	119%
	2005	1,377	NA	1,036	NA	NA	133%
	2006	1,113	1,169	1,253	95%	93%	89%
	2007	1,424	1,510	607	94%	249%	235%
	2008	689	637	1,671	108%	38%	41%
	2009	1,268	1,086	1,001	117%	108%	127%
	2010	898	817	783	110%	104%	115%
	2011	812	783	1,018	104%	77%	80%
	2012	569	395	1,534	144%	26%	37%
	2013	1,393	1,328	854	105%	156%	163%
	2014	1,000	850	432	118%	197%	231%
	2015	514	525	459	98%	114%	112%
	2016	346	299		116%		
	AVG.				106%	118%	121%
PSF+PSY[7] (Puget Sound Fingerling + Yearling)	1999	66,876	69,285	146,471	97%	47%	46%
	2000	67,306	69,800	100,425	96%	70%	67%
	2001	102,899	105,955	145,822	97%	73%	71%
	2002	114,889	124,608	147,447	92%	85%	78%
	2003	114,275	133,850	144,177	85%	93%	79%
	2004	127,902	132,300	143,731	97%	92%	89%
	2005	104,084	110,542	155,325	94%	71%	67%
	2006	107,292	113,486	191,623	95%	59%	56%
	2007	127,115	135,714	221,341	94%	61%	57%
	2008	166,071	159,200	160,626	104%	99%	103%
	2009	138,299	133,187	136,695	104%	97%	101%
	2010	138,238	140,074	144,296	99%	97%	96%
	2011	172,415	168,642	155,941	102%	108%	111%
	2012	153,462	153,989	192,714	100%	80%	80%
	2013	189,645	184,783	182,276	103%	101%	104%
	2014	191,307	188,039	80,047	102%	235%	239%
	2015	128,255	131,300	131,300	98%	100%	98%
	2016	109,207	96,430		113%		
	AVG.				98%	92%	91%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
WCN[7] (Washington Coastal Natural)	1999	42,129	43,780	23,899	96%	183%	176%
	2000	34,741	NA	26,360	NA	NA	132%
	2001	34,563	35,306	34,344	98%	103%	101%
	2002	33,902	33,489	36,175	101%	93%	94%
	2003	32,785	NA	39,859	NA	NA	82%
	2004	28,185	NA	58,681	NA	NA	48%
	2005	34,857	NA	41,860	NA	NA	83%
	2006	43,866	NA	37,603	NA	NA	117%
	2007	35,695	32,362	24,917	110%	130%	143%
	2008	32,187	26,923	30,494	120%	88%	106%
	2009	35,485	31,318	25,767	113%	122%	138%
	2010	39,215	NA	38,457	NA	NA	102%
	2011	32,205	NA	43,925	NA	NA	73%
	2012	45,153	41,500	27,812	109%	149%	162%
	2013	35,464	34,023	34,023	104%	100%	104%
	2014	44,952	46,275	33,611	97%	138%	134%
	2015	48,297	50,360	50,706	96%	99%	95%
	2016	48,033	41,095		117%		
	AVG.				106%	120%	111%
WCH[7] (Washington Coastal Hatchery)	1999	35,239	42,752	14,664	82%	292%	240%
	2000	16,244	NA	22,545	NA	NA	72%
	2001	15,792	NA	23,156	NA	NA	68%
	2002	23,678	NA	34,685	NA	NA	68%
	2003	20,755	18,222	41,839	114%	44%	50%
	2004	28,900	NA	40,078	NA	NA	72%
	2005	28,626	NA	42,656	NA	NA	67%
	2006	36,950	NA	52,403	NA	NA	71%
	2007	41,801	40,497	24,701	103%	164%	169%
	2008	34,841	31,251	27,197	111%	115%	128%
	2009	41,756	42,595	39,087	98%	109%	107%
	2010	38,347	NA	39,990	NA	NA	96%
	2011	38,208	NA	38,810	NA	NA	98%
	2012	45,128	44,300	43,545	102%	102%	104%
	2013	33,629	25,304	25,304	133%	100%	133%
	2014	40,866	42,907	44,781	95%	96%	91%
	2015	42,604	38,120	54,902	112%	69%	78%
	2016	57,443	52,174		110%		
	AVG.				106%	121%	101%
CWS[7] (Cowlitz Spring)	1999	3,363	3,950	4,296	85%	92%	78%
	2000	4,597	6,050	5,598	76%	108%	82%
	2001	3,891	4,849	5,508	80%	88%	71%
	2002	5,126	6,800	9,910	75%	69%	52%
	2003	8,821	11,700	22,691	75%	52%	39%
	2004	18,106	27,350	32,344	66%	85%	56%
	2005	16,291	24,850	15,700	66%	158%	104%
	2006	10,699	15,250	20,081	70%	76%	53%
	2007	8,946	10,600	11,959	84%	89%	75%
	2008	8,185	12,400	6,741	66%	184%	121%
	2009	5,122	14,400	7,183	36%	200%	71%
	2010	14,459	19,409	12,410	74%	156%	117%
	2011	8,427	10,602	6,264	79%	169%	135%
	2012	7,733	8,724	11,627	89%	75%	67%
	2013	9,348	7,727	12,147	121%	64%	77%
	2014	9,569	9,400	11,452	102%	82%	84%
	2015	15,530	14,100	27,941	110%	50%	56%
	2016	35,176	30,977		114%		
	AVG.				82%	106%	79%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
WSH[7] (Willamette Spring)	1999	46,187	49,875	54,202	99%	86%	85%
	2000	57,202	61,211	57,455	95%	104%	100%
	2001	59,207	59,600	80,366	97%	76%	74%
	2002	73,151	77,434	121,708	99%	61%	60%
	2003	108,530	112,521	126,583	99%	87%	86%
	2004	113,708	112,701	144,446	104%	76%	79%
	2005	105,111	122,280	60,976	90%	192%	172%
	2006	48,880	52,388	59,662	105%	78%	82%
	2007	44,542	61,071	40,468	86%	128%	110%
	2008	20,185	40,851	27,357	59%	124%	74%
	2009	44,161	41,205	39,410	117%	95%	112%
	2010	70,960	66,360	110,536	113%	57%	64%
	2011	117,375	109,600	80,254	113%	130%	146%
	2012	105,098	88,202	65,115	126%	128%	161%
	2013	58,436	65,982	47,311	98%	126%	124%
	2014	58,496	64,189	51,794	100%	113%	113%
	2015	54,162	55,440	87,071	98%	64%	62%
	2016	73,333	70,100		105%		
	AVG.				100%	101%	100%
SUM[7] (Columbia River Summer)	1999	21,651	20,900	26,229	131%	63%	83%
	2000	27,214	28,038	30,651	82%	108%	89%
	2001	27,029	24,500	76,377	110%	32%	35%
	2002	70,290	77,700	129,012	90%	60%	54%
	2003	97,280	87,600	116,905	111%	75%	83%
	2004	83,246	78,569	65,623	81%	157%	127%
	2005	66,190	62,400	60,272	106%	104%	110%
	2006	75,848	78,512	77,573	155%	63%	98%
	2007	56,948	45,555	37,035	125%	123%	154%
	2008	50,171	52,000	55,532	96%	94%	90%
	2009	68,114	70,700	53,881	96%	131%	126%
	2010	81,403	88,800	72,346	92%	123%	113%
	2011	89,000	91,900	80,574	98%	113%	110%
	2012	91,202	91,200	58,300	100%	156%	156%
	2013	72,042	73,500	67,603	98%	109%	107%
	2014	69,644	67,500	78,254	103%	86%	89%
	2015	76,664	73,000	126,882	105%	58%	60%
	2016	105,748	93,300		113%		
	AVG.				105%	97%	99%
BON+CWF[7] (Bonneville + Cowlitz Hatcheries)	1999	26,651	34,800	37,300	77%	93%	71%
	2000	17,095	23,700	27,000	72%	88%	63%
	2001	28,732	32,200	94,200	89%	34%	31%
	2002	100,401	137,600	156,400	73%	88%	64%
	2003	100,196	115,900	154,983	86%	75%	65%
	2004	64,696	77,100	108,300	84%	71%	60%
	2005	65,971	74,100	77,799	89%	95%	85%
	2006	49,173	55,800	58,317	88%	96%	84%
	2007	49,219	54,900	32,689	90%	168%	151%
	2008	58,557	59,000	60,268	99%	98%	97%
	2009	91,519	88,800	76,738	103%	116%	119%
	2010	95,581	90,600	103,055	105%	88%	93%
	2011	139,873	133,430	108,961	105%	122%	128%
	2012	132,629	126,999	84,798	104%	150%	156%
	2013	86,456	94,600	103,213	91%	92%	84%
	2014	219,085	110,000	101,827	199%	108%	215%
	2015	84,204	94,900	128,705	89%	74%	65%
	2016	131,889	133,700		99%		
	AVG.				97%	97%	96%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
SPR[2] (Spring Creek Hatchery)	1999	62,831	65,800	50,189	95%	131%	125%
	2000	17,335	21,900	20,527	79%	107%	84%
	2001	56,089	56,600	124,951	99%	45%	45%
	2002	153,070	144,400	158,299	106%	91%	97%
	2003	89,116	96,900	180,592	92%	54%	49%
	2004	124,820	138,000	175,245	90%	79%	71%
	2005	92,021	114,100	103,467	81%	110%	89%
	2006	43,421	50,000	27,917	87%	179%	156%
	2007	19,421	21,800	14,549	89%	150%	133%
	2008	87,109	87,200	93,849	100%	93%	93%
	2009	46,652	59,300	48,966	79%	121%	95%
	2010	167,251	169,000	128,553	99%	131%	130%
	2011	105,900	116,400	70,532	91%	165%	150%
	2012	72,135	63,800	56,947	113%	112%	127%
	2013	36,276	38,000	86,703	95%	44%	42%
	2014	108,724	115,100	127,586	94%	90%	85%
	2015	145,389	160,400	166,359	91%	96%	87%
	2016	84,229	89,600		94%		
	AVG.				93%	106%	98%
URB[2] (Columbia Upriver Bright)	1999	173,866	147,500	165,889	113%	93%	105%
	2000	212,317	171,100	156,595	124%	109%	136%
	2001	150,973	127,200	232,366	119%	55%	65%
	2002	249,721	281,000	279,548	89%	101%	89%
	2003	246,890	280,400	374,154	88%	75%	66%
	2004	246,943	292,200	362,804	85%	81%	68%
	2005	318,535	352,200	277,241	90%	127%	115%
	2006	231,319	253,900	230,390	91%	110%	100%
	2007	168,594	182,400	114,000	92%	160%	148%
	2008	151,839	162,500	197,295	93%	82%	77%
	2009	259,415	259,900	212,104	100%	123%	122%
	2010	296,816	310,800	324,908	96%	96%	91%
	2011	388,138	398,200	322,052	97%	124%	121%
	2012	365,693	353,500	297,827	103%	119%	123%
	2013	437,422	432,500	778,254	101%	56%	56%
	2014	874,989	973,300	683,461	90%	142%	128%
	2015	489,123	573,600	795,915	85%	72%	61%
	2016	568,210	589,000		96%		
	AVG.				97%	101%	98%
LYF[1] (Snake River Wild)	1999	542	1,500	2,395	NA	NA	23%
	2000	1,243	1,800	2,612	NA	NA	48%
	2001	733	7,600	14,133	100%	14%	5%
	2002	2,066	NA	3,665	NA	NA	56%
	2003	2,493	2,185	8,093	114%	27%	31%
	2004	4,323	6,100	8,174	71%	75%	53%
Time series reworked per TAC guidance November 2016	2005	4,453	4,000	9,500	111%	42%	47%
	2006	8,285	3,500	12,202	237%	29%	68%
	2007	3,128	2,700	9,878	116%	27%	32%
	2008	2,718	6,400	8,738	42%	73%	31%
	2009	5,743	6,600	15,576	87%	42%	37%
	2010	2,609	5,300	12,855	49%	41%	20%
	2011	9,199	17,500	17,156	53%	102%	54%
	2012	10,401	15,100	19,360	69%	78%	54%
	2013	15,154	31,600	34,669	48%	91%	44%
	2014	31,106	61,000	20,752	51%	294%	150%
	2015	18,071	20,900	24,054	86%	87%	75%
	2016	15,912	19,700		81%		
	AVG.				88%	73%	49%

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Stock	Year	Model Forecast	Agency Forecast	Postseason Return	Model Fcst/ Agency Fcst	Agency Fcst/ Postseason	Model Fcst/ Postseason
MCB[2] (Mid-Columbia Bright) Post season return Reworked per TAC guidance November 2016	1999	37,997	38,300	50,873	99%	75%	75%
	2000	53,460	50,600	37,193	106%	136%	144%
	2001	45,055	43,500	76,513	104%	57%	59%
	2002	102,085	96,200	108,213	106%	89%	94%
	2003	126,698	104,800	150,085	121%	70%	84%
	2004	94,895	90,400	122,073	105%	74%	78%
	2005	93,837	89,400	99,367	105%	90%	94%
	2006	90,780	88,300	80,355	136%	83%	113%
	2007	77,470	68,000	47,392	114%	143%	163%
	2008	59,481	54,000	76,088	110%	71%	78%
	2009	99,685	94,400	72,881	106%	130%	137%
	2010	82,454	72,600	78,912	114%	92%	104%
	2011	108,005	100,000	87,222	108%	115%	124%
	2012	100,809	90,800	61,378	111%	148%	164%
	2013	113,333	105,200	249,542	108%	42%	45%
	2014	377,357	360,100	203,173	105%	177%	186%
	2015	156,711	113,100	170,620	139%	66%	92%
	2016	115,632	101,000		114%		
	AVG.				112%	98%	108%
LRW[2] (Lewis River Wild) Time series reworked per TAC guidance November 2016	1999	3,072	2,600	3,349	118%	78%	92%
	2000	4,053	3,500	10,234	116%	34%	40%
	2001	16,574	16,700	15,721	99%	106%	105%
	2002	18,910	18,700	25,171	101%	74%	75%
	2003	25,820	24,600	25,404	105%	97%	102%
	2004	24,590	24,100	21,088	102%	114%	117%
	2005	21,937	20,200	16,345	109%	124%	134%
	2006	19,818	16,600	12,649	119%	131%	157%
	2007	10,306	10,100	4,854	102%	208%	212%
	2008	4,479	3,800	7,782	118%	49%	58%
	2009	9,363	8,500	8,404	110%	101%	111%
	2010	11,034	9,700	11,491	114%	84%	96%
	2011	13,429	12,500	15,376	107%	81%	87%
	2012	17,806	16,200	12,112	110%	134%	147%
	2013	16,713	14,200	25,841	118%	55%	65%
	2014	42,365	34,200	25,758	124%	133%	164%
	2015	32,374	26,600	32,403	122%	82%	100%
	2016	29,122	22,200		131%		
	AVG.				113%	99%	110%
ORC[1] (Oregon Coastal) Observed return reworked per ODFW review November 2016	1999	65,338	72,084	82,104	91%	88%	80%
	2000	61,457	63,259	67,787	97%	93%	91%
	2001	58,062	66,412	130,825	87%	51%	44%
	2002	73,055	73,914	171,944	99%	43%	42%
	2003	101,310	85,483	183,226	119%	47%	55%
	2004	135,716	131,904	138,182	103%	95%	98%
	2005	133,886	167,213	171,097	80%	98%	78%
	2006	125,550	136,373	109,138	92%	125%	115%
	2007	108,338	131,195	46,253	83%	284%	234%
	2008	53,417	70,101	39,897	76%	176%	134%
	2009	32,254	48,072	53,562	67%	90%	60%
	2010	51,234	59,806	72,223	86%	83%	71%
	2011	73,043	78,199	99,270	93%	79%	74%
	2012	82,789	80,749	91,676	103%	88%	90%
	2013	70,385	80,095	117,230	88%	68%	60%
	2014	81,984	109,029	133,645	75%	82%	61%
	2015	63,642	94,715	144,582	67%	66%	44%
	2016	110,710	119,374		93%		
	AVG.				89%	97%	84%

[1] Escapement; [2] Terminal Run; [3] Puget Sound run sizes for 2015 are preliminary postseason projections based on partial return information; [4] An agency forecast was provided in 2013 for the WCVI aggregate (27,339) but the decision was made by the CTC to exclude it from the Model calibration. The Model forecast was 32,180 and both forecasts were large under-forecasts.